



S E A M E O
SEARCA

ASIA PACIFIC
**ADAPTATION
NETWORK**

International Conference on Climate Change Impacts and Adaptation for Food and Environmental Security

21-22 November 2012
SEARCA, College
Los Baños, Laguna
Philippines



Post-conference Fieldtrip
Southern Tagalog Region
23 November 2012



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Conference Programme

Day 1

21 Nov

TIME	ACTIVITY	SPEAKERS
7:30 am	Registration SEARCA Front Lobby	
8:30	Opening Program SEARCA DL Umali Auditorium <i>Chair: Dr. Maria Celeste H. Cadiz</i> <i>Program Head for Knowledge Management, SEARCA</i>	
8:30	Messages	Dr. Gil C. Saguiguit Jr. <i>Director, SEARCA</i> Dr. Rex Victor O. Cruz <i>Chancellor</i> University of the Philippines Los Baños (UPLB) Atty. Mary Anne Lucille Sering <i>Vice-Chair, Climate Change Commission</i>
9:15	Keynote Speech <i>Food Security and Climate Change Impacts on Urban-Rural Linkages</i>	Dr. Paul S. Teng <i>Dean of Graduate Studies and Professional Learning</i> National Institute of Education (NIE) <i>Senior Fellow on Food Security</i> Center for Non-traditional Security Studies S. Rajaratnam School of International Studies (RSIS) Nanyang Technological University (NTU), Singapore
9:35	Conference Overview	Dr. Felino P. Lansigan <i>Co-chair, UPLB Interdisciplinary Program on Climate Change (UPLB IdPCC)</i> <i>Professor, UPLB</i>
9:50	Opening of Poster Exhibit (Drilon Hall Lobby, 3 rd Floor)	Dr. Mariliza V. Ticsay <i>Unit Head, Knowledge Resources, SEARCA</i>
10:00	Group Photo	
10:15	Coffee/Tea	
10:30	PLENARY 1 - Status, Prospects, and Practices on Climate Change Adaptation in Agriculture SEARCA DL Umali Auditorium <i>Chair: Dr. Felino P. Lansigan</i> IdPCC Co-chair and Professor of Statistics, UPLB Lead Author, Intergovernmental Panel for Climate Change <i>Rapporteur: Dr. Serlie B. Jamias</i> Public Relations Director, Office of the Chancellor (OC) Associate Professor of Development Communication, UPLB	
	<i>Climate Change Impacts and Adaptation in the Semi-Arid Tropics</i>	Dr. William D. Dar <i>Director General, International Crops Research Institute for the Semi-Arid Tropics (ICRISAT)</i>
	<i>Agricultural Adaptation to Climatic Change at the Grassroots Level and Use of Advances in Science and Technology</i>	Dr. Seishi Ninomiya <i>Professor</i> Institute for Sustainable Agro-ecosystem Services University of Tokyo, Japan
11:45	Open Forum	
12:15 pm	Lunch	

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Day 1

21 Nov

TIME	ACTIVITY	SPEAKERS
Parallel Sessions 1: CLIMATE CHANGE IMPACTS AND VULNERABILITY		
1:30 pm	Session 1A (SEARCA DL Umali Auditorium) Chair: Dr. Agnes C. Rola, Dean and Professor, College of Public Affairs and Development (CPAf), UPLB Co-chair: Ms. Dulce D. Elazegui, University Researcher, UPLB CPAf Rapporteur: Mr. Edwin R. Abucay, Assistant Professor, College of Human Ecology (CHE), UPLB <i>Unavoidable Global Warming Commitment and Its Food Security, Impacts and Risks, Implications Focused on South East Asia</i> <i>An Analysis of the Impacts of Climate Change on Crop Yields and Yield Variability in Ethiopia</i> <i>Climate Changes in Cambodia, Philippines and Vietnam: A Vulnerability Analysis at Commune and Household Levels</i> <i>Carbon Sequestration and Climate Change Impact on the Yield of Bagras (Eucalyptus deglupta Blume) in Corn-based Boundary Planting Agroforestry System in Northern Mindanao, Philippines</i>	Dr. Peter Carter Climate Emergency Institute, Canada Mr. Zerihun G. Kelbore PhD Candidate, University of Trento, Via Verdi, Italy Dr. Bui Dung The Director, Office of Science-Technology, International Cooperation and Postgraduate Education, College of Economics, Hue University, Vietnam Mr. Richmund A. Palma Assistant Professor Misamis Oriental State College of Agriculture and Technology, Philippines
	Session 1B (SEARCA Drilon Hall) Chair: Dr. Severino S. Capitan, Director, Sentro ng Wikang Filipino and Professor of Animal Science, College of Agriculture (CA), UPLB Co-chair: Dr. Amparo M. Wagan, University Extension Specialist, UPLB CA Rapporteur: Dr. Rico C. Ancog, Assistant Professor, School of Environmental Science and Management (SESAM), UPLB <i>Climate-Driven Variations in Small Pelagic Fisheries Production in Northern Zamboanga and Bohol Sea: Potential Impact, Vulnerability, and Local Adaptive Capacity</i> <i>Food Insecurity and Climate Change in Nigeria: How Vulnerable are the Rural Farmers?</i> <i>Vulnerability and Adaptive Capacity of Pastoral Communities under Climate Change in the Hindu Kush Himalayan Region</i> <i>Status of Native Forest Managed by Mataqali under Anthropogenic Pressure - A Case From Sote Village, Nukuru, Tailevu, The Fiji Islands</i> <i>Flooding Vulnerability of the Towns of Mabitac, and Santa Maria, Laguna, Philippines</i>	Dr. Asuncion B. De Guzman Professor, Mindanao State University at Naawan Philippines Dr. Samuel O. Awoniyi Lecturer, Joseph Ayo Babalola University, Nigeria Dr. Srijana Joshi Rijal Consultant, International Centre for Integrated Mountain Development (ICIMOD), Nepal Mr. Maika Tabukovu Lecturer, Fiji National University, Fiji Islands Dr. Romeo Pati Associate Professor, University of Rizal System, Philippines
	Session 1C (Sam-Arng Srinilta Room) Chair: Dr. Jose Nestor M. Garcia, University Researcher, UPLB CA Co-chair: Dr. Ravindra C. Joshi, Consultant, Ministry of Primary Industries (Agriculture), Fiji Islands Rapporteur: Engr. Joan Pauline P. Talubo, Assistant Professor, UPLB CHE, and Ms. Ma. Rowena Beatriz Q. Inzon, MS Student, UPLB SESAM <i>Projected Impact of Downscaled Climate Scenarios on Rice Production in Two Selected Provinces in the Philippines</i> <i>Impacts of Climate Change on Rice Production in Vietnam</i> <i>Measuring the Impact of La Niña on Food and Nutrition Security in Timor Leste</i> <i>Climate Change Implications to Food Security and Livelihood of Small-Scale Farmers in Lao PDR</i>	Dr. Linda M. Peñalba Professor, UPLB, Philippines Mr. Ngo Duc Minh PhD Research Scholar, International Rice Research Institute Mr. Agostinho da Costa Ximenes National Consultant for Food Security Ministry of Agriculture and Fisheries, Timor Leste Dr. Outhai Soukkhy Deputy Director, Northern Agriculture and Forestry College, Lao PDR
3:00	Coffee/Tea	

Conference Programme

Day 1

21 Nov

TIME	ACTIVITY	SPEAKERS
Parallel Sessions 2: CLIMATE CHANGE ADAPTATION AND AGRICULTURE		
3:30 pm	Session 2A (SEARCA DL Umali Auditorium) Chair: Dr. Gloria Luz M. Nelson , Professor, College of Arts and Sciences (CAS), UPLB Co-chair: Prof. Rosario V. Tatlonghari , Assistant Professor, College of Development Communication (CDC), UPLB Rapporteur: Dr. Serlie B. Jamias , Public Relations Director, UPLB OC, and Associate Professor, UPLB CDC	
	<i>Livelihood Capacity and Adaptive Strategies to Climate Change of Rice-Based Farming Households in the Mekong Delta, Vietnam</i>	Dr. Le Cahn Dung Head, Department of Social Economic and Policy Study Mekong Delta Development Research Institute Can Tho University, Vietnam
	<i>Community-Based Climate Change Adaptation in Contiguous Agricultural Ecosystems-Experiences from the Cordillera Region in the Philippines</i>	Dr. Roberto C. Sandoval Jr. <i>Climate Change and Food Security Specialist</i> Food and Agriculture Organization of the United Nations (FAO) Philippines
	<i>Successful Local Food Production Project in Solomon Islands: The Blue Print for the Pacific Islands Countries and Territories</i>	Dr. Ravindra C. Joshi <i>Consultant, Ministry of Primary Industries (Agriculture)</i> Fiji Islands
	<i>Mitigating the Negative Impact of Climate Change on Field Crop Production</i>	Dr. Medhat Mekhail Tawfik <i>Professor of Agronomy, National Research Centre, Egypt</i>
	Session 2B (SEARCA Drilon Hall) Chair: Dr. Leonardo M. Florece , Dean and Professor, UPLB SESAM Co-chair: Dr. Decibel F. Eslava , Associate Professor, UPLB SESAM Rapporteur: Prof. Ma. Theresa M. Talavera , Director and Assistant Professor, Institute of Human Nutrition and Food (IHNF), UPLB CHE	
	<i>Low Delta Cropping and Micro Irrigation Techniques as Adaptation Measures of Climate Change in Northern Balochistan, Pakistan</i>	Dr. Faiz Mohammad Kakar <i>Member, Board of Directors</i> Centre for Research and Development (CRD), Pakistan
	<i>Adaptive Capacity and Adaptation to Climate Change and Variability of Farming Households of Dumangas, Iloilo, Philippines</i>	Dr. Gay D. Defiesta <i>Assistant Professor</i> University of the Philippines Visayas (UPV), Philippines
	<i>A Shift in the Mycotoxin Profile in Costa Rica under Climate Change – A Case Study on Mycotoxigenic Fusarium proliferatum in Rice (Oryza sativa)</i>	Dr. Adriana Murillo-Williams <i>Professor, University of Costa Rica</i>
	<i>Sustainable Ancient Water Management and Resilience to Climate Change in Sri Lanka</i>	Dr. Ranjana U. K. Piyadasa <i>Senior Lecturer, University of Colombo, Sri Lanka</i>
	Session 2C (Sam-Arng Srinilta Room) Chair: Prof. Ma. Emilinda T. Mendoza , Assistant Professor, College of Human Ecology (CHE), UPLB Co-chair: Dr. Rio John T. Ducusin , Chair and Professor, Department of Veterinary Clinical Sciences, College of Veterinary Medicine (CVM) UPLB Rapporteur: Mr. Efraim D. Roxas , Instructor, UPLB CHE	
	<i>Increasing Rice Productivity in Submergence-Prone Areas Vulnerable to Climate Change in South East Asia</i>	Dr. Romeo V. Labios <i>University Researcher</i> UPLB CA, Philippines
	<i>Response of Agro-Pastoral Indigenous Communities to the Cascading Effects of Climate Change-Studies from Sikkim, Eastern Himalayas, India</i>	Mr. Tenzing Ingty <i>PhD Student, Regional Office for the Himalayas/ Northeast India, Ashoka Trust for Research in Ecology and the Environment</i>
	<i>Documenting and Promoting Indigenous Agricultural Knowledge and Climate Change Adaptation in Selected Areas in the Philippines: Toward Enhancing Community-Level Food Security</i>	Dr. Lucille Elna P. De Guzman <i>University Researcher</i> UPLB CA, Philippines
5:20	End of Day 1	
6:30	Cocktails and Dinner	

Conference Programme

Day 2

22 Nov

TIME	ACTIVITY	SPEAKERS
Parallel Sessions 3: INSTITUTIONAL AND ECONOMIC ASPECTS OF CLIMATE CHANGE IMPACTS AND ADAPTATION		
8:30 am	Session 3A (SEARCA DL Umali Auditorium) <i>Chair: Dr. Margaret M. Calderon</i> , Professor, College of Forestry and Natural Resources (CFNR), and Assistant to the Vice Chancellor for Community Affairs, UPLB <i>Co-chair: Dr. Srijana Joshi Rijal</i> , Consultant, ICIMOD <i>Rapporteur: Prof. Devralin T. Lagos</i> , Assistant Professor, UPLB CHE	
	<i>Building Climate Resilient Communities through Community Based Adaptation Planning and Action: Some Empirical Evidences from Nepal</i>	Dr. Dharam Uprety <i>Forestry and Climate Change Manager</i> Multi Stakeholders Forestry Programme, Nepal
	<i>Attitudes towards Flooding Risks in Vietnam: Implications for Insurance</i>	Dr. Pham Khanh Nam <i>Senior Economist, EEPSEA and Deputy Dean, Faculty of Development Economics, University of Economics, Ho Chi Minh, Vietnam</i>
	<i>Strengthening Capability of State Universities on Vulnerability Assessment to Enhance their Role in Climate Change Adaptation for Agriculture</i>	Dr. Amparo M. Wagan <i>University Extension Specialist</i> UPLB, Philippines
	<i>Climate Change and Food Security: Challenges, Success and Opportunities in Bangladesh</i>	Mr. Mohammad Alamgir <i>Senior Scientific Officer (Forestry)</i> Ministry of Water Resources, Bangladesh
	Session 3B (SEARCA Drilon Hall) <i>Chair: Dr. Corazon L. Rapera</i> , Chair and Professor, Department of Agricultural Economics College of Economics and Management (CEM), UPLB <i>Co-chair: Mr. Karamat Ali</i> , Country Coordinator, Pakistan Waters Partnership <i>Rapporteur: Prof. Mayo Grace C. Amit</i> , Assistant Professor, UPLB CPAf	
	<i>Household Economic Losses: A Case Study of Thailand's 2011 Flood</i>	Dr. Orapan Nabangchang Srisawalak <i>Senior Economist, EEPSEA and Associate Professor, Sukhothai Thammatirat Open University, Thailand</i>
	<i>Understanding the Capacity of Policy Makers to Access and Use Climate Change Research Outputs for National Development: The Case of Zimbabwe</i>	Mr. Ignatius Gutsa <i>Lecturer, University of Zimbabwe</i>
	<i>Institutionalizing Rural Communication Services for Climate Change Adaptation and Food Security: The Bangladesh Experience</i>	Dr. Cleofe S. Torres <i>Professor</i> UPLB CDC, Philippines
	<i>Agriculture, Climate Change, Germplasm and Seeds, and Intellectual Property Rights</i>	Dr. Krishna Ravi Srinivas <i>Associate Fellow, Research and Information System for Developing Countries, India</i>
	<i>Governing Small-scale Aquaculture for Climate Change Adaptation and Food Security in the Philippines</i>	Dr. Pepito R. Fernandez <i>Associate Professor, UPV, Philippines</i>
	Session 3C (Sam-Arng Srinilta Room) <i>Chair: Dr. Herminia A. Francisco</i> , Director, Economy and Environment Program for Southeast Asia (EEPSEA) <i>Co-chair: Dr. Ronaldo B. Saludes</i> , Assistant Professor, College of Engineering and Agro-industrial Technology, UPLB <i>Rapporteur: Dr. Rico C. Ancog</i> , Assistant Professor, UPLB SESAM	
	<i>Climate Change Impacts, Vulnerability Assessments, Economic and Policy Analysis of Adaptation Strategies in Selected Coastal Areas in Indonesia and the Philippines</i>	Dr. Asa Jose U. Sajise <i>Associate Professor</i> UPLB, Philippines
	<i>Addressing Linkages between Climate Change and Food Security through Top-Down and Bottom-Up Impact Assessments, Food Insecurity Vulnerability Analysis, Community-Based Adaptation, and Improved Socio-Institutional Mechanisms: FAO's AMICAF Framework</i>	Dr. Eulito U. Bautista <i>Project Manager, FAO Philippines</i>

Conference Programme

Day 2

22 Nov

TIME	ACTIVITY	SPEAKERS
8:30 am	Session 3C	
	<i>Linking Climate Change, Rice Yield and Migration: The Philippine Experience</i>	Dr. Flordeliza H. Bordey Senior Science Research Specialist Philippine Rice Research Institute
	<i>Adaptation to Sea Level Rise in the Vietnamese Mekong River Delta: Should a Sea Dike be Built?</i>	Dr. Vo Thanh Danh Dean, School of Economics and Business Administration Can Tho University, Vietnam
10:00	Coffee/Tea	
	Parallel Sessions 4: SYSTEMS AND TOOLS FOR ANALYZING CLIMATE CHANGE IMPACTS AND VULNERABILITY	
10:30	Session 4A (SEARCA DL Umali Auditorium) <i>Chair: Dr. Orapan Nabangchang Srisawalak</i> , Senior Economist, EEPSEA and Associate Professor, Sukhothai Thammathirat Open University, Thailand <i>Co-chair: Dr. Bui Dung The</i> , Director, Office of Science-Technology, International Cooperation and Postgraduate Education, College of Economics, Hue University, Vietnam <i>Rapporteur: Dr. Michelle Grace V. Paraso</i> , Associate Professor, College of Veterinary Medicine, UPLB	
	<i>Eliciting Factors Affecting Fish Kill Events in Taal Lake through Participatory Approaches: A Tool for the Development of a Predictive Fish Kill Model</i>	Dr. Damasa B. Magcale-Macandog Professor UPLB CAS, Philippines
	<i>A System for Monitoring the Effects of Climate on the Flux and Availability of Water Resources in the Drylands of Eastern Africa</i>	Dr. Laban MacOpiyo Lecturer, University of Nairobi, Kenya
	<i>Economy-Wide Estimates of Climate-Induced Impacts on Philippine Agriculture: A Computable General Equilibrium Analysis</i>	Dr. Arvin B. Vista Assistant Professor UPLB CEM, Philippines
	Session 4B (SEARCA Drilon Hall) <i>Chair: Dr. Canesio D. Predo</i> , Assistant Professor, UPLB CFNR <i>Co-chair: Dr. Paul David Esker</i> , Professor, University of Costa Rica <i>Rapporteur: Dr. Lucille Elna P. de Guzman</i> , University Researcher, UPLB CA	
	<i>Methodological Framework for the Decision Support System for Climate Change Adaptation in Rainfed Rice Areas</i>	Dr. Anita A. Boling Postdoctoral Fellow, International Rice Research Institute
	<i>Regional Climate Simulations: Current Performance, Key Challenges, and the Fundamental Importance of their Coupling with End User Models</i>	Dr. Volker Wulfmeyer Professor, University of Hohenheim, Germany
	<i>Use of Statistical Downscaling and Process-Based Crop Model in Assessing Climate Change Impact on Rice Yield</i>	Mr. Mark Jay R. Dating Instructor, UPLB CAS, Philippines
	<i>Track-Risk-Impact-Policy (TRIP) Modeling of Tropical Cyclones for the Agricultural Sector</i>	Engr. Glenn S. Banaguas Director for Research De La Salle Araneta University, Philippines
12:00 pm	Lunch	
1:15 pm	PLENARY 2 - Regional and South-South Collaboration in Research and Development SEARCA DL Umali Auditorium <i>Chair: Dr. Rex Victor O. Cruz</i> Chancellor, UPLB <i>Rapporteur: Dr. Michelle Grace V. Paraso</i> Associate Professor, UPLB CVM	
	<i>Agrobiodiversity and Climate-Smart Landscapes for Improved Food Security under Climate Change: A Call for Increased South-South Collaboration</i>	Dr. Reinhold G. Muschler Latin American Chair for Agroecology and Agrobiodiversity Center for Agricultural Research and Higher Education Costa Rica

Conference Programme

Day 2

22 Nov

TIME	ACTIVITY	SPEAKERS
1:15 pm	PLENARY 2	
	<i>Status and Prospects for South-South Exchange/ Collaboration: Asia-Pacific</i>	Mr. Marcial C. Amaro Jr. <i>Director</i> Ecosystems Research and Development Bureau Department of Environment and Natural Resources, Philippines <i>Philippine Representative</i> Asia-Pacific Network for Global Change Research (APN)
	<i>Advancing Higher Education and Research in Climate Change and Disaster Risk Reduction through Multilevel Collaboration</i>	Dr. Juan M. Pulhin <i>Dean and Professor</i> CFNR, UPLB, Philippines <i>Coordinating Lead Author</i> , Intergovernmental Panel on Climate Change (IPCC) Fifth Assessment Report
2:15	Open Forum	
2:30	PLENARY 3 - Panel Discussion on Networking for R&D and Capacity Building on Climate Change and Food, Environmental Security	
	<i>Chair: Dr. Rodel D. Lasco</i> Philippine Program Coordinator, World Agroforestry Center (ICRAF)	
	<i>Rapporteur: Ms. Darleen Gela</i> Project Officer, ICLEI Local Governments for Sustainability - Southeast Asia	
	<i>Asia Pacific Adaptation Network (APAN)</i>	Ms. Hiroko Kodaka <i>Associate Programme Manager, APAN</i>
	<i>University of the Philippines Los Baños Interdisciplinary Program on Climate Change (UPLB IdPCC)</i>	Dr. Maria Victoria O. Espaldon <i>Chair, UPLB IdPCC</i> Vice-Chancellor for Research and Extension, UPLB
	<i>Asia-Pacific Network for Global Change Research (APN)</i>	Mr. Marcial C. Amaro, Jr. <i>Director, ERDB and Philippine Representative, APN</i>
	<i>University of Tokyo</i>	Dr. Seishi Ninomiya <i>Professor</i> Institute for Sustainable Agro-ecosystem Services University of Tokyo
	<i>Economy and Environment Program for Southeast Asia (EEPSEA)</i>	Dr. Herminia A. Francisco <i>Director, EEPSEA</i>
	<i>ASEAN GIZ Biodiversity and Climate Change Project (BCCP)</i>	Dr. Berthold Seibert <i>Project Director, ASEAN-GIZ BCCP</i>
3:45	Coffee/Tea	
4:15	<i>Synthesis, Conclusions and Recommendations</i>	Dr. Maria Victoria O. Espaldon
4:30	Closing Program	
	<i>Closing Remarks</i>	Dr. Puja Sawhney <i>Regional Coordinator, APAN</i>
	<i>Appreciation</i>	Dr. Felino P. Lansigan Dr. Maria Celeste H. Cadiz