

First Regional Training:
“Assessing Costs and Benefits of Adaptation: Methods and Data”

Date: March 11-14
Place: Vie Hotel, Bangkok

Day 1

8:30 AM	Registration
9:00 AM	Introductory Session <i>(Chair: Robert Dobias, ADAPT Asia-Pacific)</i> Welcome and Opening Remarks, Alfred Nakatsuma (Director, Regional Environment Office, USAID)
9:15 AM	Objectives of the Capacity Building Programme and Expected Outputs from this week, Pradeep Kurukulasuriya (UNDP)
9.45 AM	Session 1: Measuring Climate Damages in Agriculture Lead Discussant: Robert Mendelsohn, Yale <i>Topics to be covered:</i> Ricardian Method Methodology, Data, Analysis, and Results Q&A
11:00 AM	Coffee/Tea Break
11:15 AM	Session 2: Measuring Adaptation in Agriculture Lead Discussant: Emanuele Massetti, FEEM <i>Topics to be covered:</i> Cross sectional choice models China crop choice case study Methodology and Data Q&A
12:30 PM	Lunch

1:30 PM	<p>Session 3: Benefits and Costs <i>(Chair: Robert Mendelsohn, Yale)</i></p> <p>Lead Discussant: Emanuele Massetti, FEEM <i>Topics to be covered:</i> Choice-Conditional Income Models Irrigation Methodology, Data, Analysis, and Results Q&A</p>
2:30 PM	<p>Session 4: Overview of Expected Work Plan at the Country level</p> <p>Lead Discussant: Pradeep Kurukulasuriya, UNDP</p> <p>Overview of Country Priorities for Planned Analytical work Lead Discussant: Country Teams</p>
3:30 PM	Break
3:45 PM	<p>Overview of Country Priorities for Planned Analytical work</p> <p>Lead Discussant: Country Teams</p>
5.30 PM	Close
6:00 PM	Reception hosted by ADAPT Asia-Pacific (<i>Vie Hotel</i>)

Day 2

8:30 AM	<p>Session 5: Evaluating the Costs and Benefit of Adaptation Projects <i>(Chair: Pradeep Kurukulasuriya, UNDP)</i></p> <p>Lead Discussant: Benoit Laplante, Asian Development Bank <i>Topics to be covered:</i> Basic Approach Methodology and Data Problems: Nonmarket goods, externalities, time Q&A</p>
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9:30 AM	<p>Session 6: Example in Agriculture</p> <p>Lead Discussant: Olive Montecillo, Farm Management Economist <i>Topics to be covered:</i> Cost Benefit Analysis of Irrigation Project Methodology, Data, Analysis, and Results Q&A</p>
10:30 AM	Coffee/Tea Break
10:45 AM	<p>Session 7: Example in Agriculture</p> <p>Lead Discussant: Robert Mendelsohn, Yale <i>Topics to be covered:</i> Cost Benefit Analysis of High Yield Varieties Methodology, Data, Analysis, and Results Q&A</p>
12:00 PM	Lunch
1:00 PM	<p>Session 8: Linking Economic Analysis to the Articulation of Climate Change Financing Framework: An Example on Cambodia <i>(Chair: Robert Dobias, ADAPT Asia-Pacific)</i></p> <p>Lead Discussant: Thomas Beloe (UNDP)</p>
2:00 PM	<p>Session 9: Example in Water</p> <p>Lead Discussant: Robert Mendelsohn, Yale <i>Topics to be covered:</i> Cost Benefit Analysis of a Dam Methodology, Data, Analysis, and Results Q&A</p>
3:00 PM	<p>Session 10: Interactive Discussion with Countries on materials presented to-date</p> <p>Lead Discussant: Robert Mendelsohn, Yale and Benoit Laplante, ADB</p>
4:00 PM	Break
4:15 PM	<p>Discussion of Planned Country Level Analytical Work</p> <p><i>Topics to be covered:</i> What adaptation benefits will be measure? What adaptation costs will be measured?</p>

	What data is needed? etc Q&A
6:00 PM	Close

Day 3

8:30 AM	<p>Session 11: Modeling Water Systems <i>(Chair: Robert Mendelsohn, Yale)</i></p> <p>Lead Discussant: Brian Hurd, New Mexico State University <i>Topics to be covered:</i> Hydrological Model of Watershed Capture dams and reservoirs Q&A</p>
9:30 AM	<p>Session 12: Economic Model of Watershed</p> <p>Lead Discussant: Brian Hurd, New Mexico State University <i>Topics to be covered:</i> Capturing Demand for Withdrawal Uses and In-stream Uses Q&A</p>
10:30 AM	Coffee Break
10:45 AM	<p>Session 13: Example of Watershed Model</p> <p>Lead Discussant: Dr. Dilip Kumar Gautam, Regional Integrated Multi-Hazard Early Warning System for Africa and Asia (RIMES), Asian Institute of Technology <i>Topics to be covered:</i> Hydrological modelling for Upper Chaophraya River basin Using HEC-HMS (covering reservoirs and dams). Q&A</p>
12:00 PM	Lunch
1:00 PM	<p>Session 14: Linking Analysis to Policy Change for Poverty Reduction and Social Protection <i>(Chair: Robert Dobias, ADAPT Asia-Pacific)</i></p> <p>Lead discussant: Taimur Khilji (UNDP)</p>
2:00 PM	<p>Session 15: Example: Water Reallocation Lead Discussant: Brian Hurd, New Mexico State University</p>

	<p><i>Topics to be covered:</i></p> <ul style="list-style-type: none"> Climate change alters supply and/or demand Reallocate water to highest use Measure net benefit Q&A
3:00 PM	<p>Session 16: Example: Dam Lead Discussant: Brian Hurd, New Mexico State University</p> <p><i>Topics to be covered:</i></p> <ul style="list-style-type: none"> Climate change alters timing of flows Dams move water over time Measure net benefit Q&A
4:00 PM	Break
4:15 PM	<p>Excel Water Training Example (Interactive) Robert Mendelsohn, Yale</p> <p><i>Topics to be covered:</i></p> <ul style="list-style-type: none"> Climate change reduces flows Reallocate water across users Improve water efficiency of irrigation Measure Net Benefit
6:00 PM	Close

Day 4

8:30 AM	<p>Session 17: Agricultural Data <i>(Chair: Pradeep Kurukulasuriya, UNDP)</i></p> <p>Lead Discussant: Emanuele Massetti, FEEM</p> <p><i>Topics to be covered:</i></p> <ul style="list-style-type: none"> What data is needed to understand agriculture? Collecting comparable survey data Sampling Design
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9:45 AM	<p>Session 18: Sampling and Non-Sampling Errors- Issues to Consider</p> <p>Lead Discussant: Bishwa Tiwari (UNDP)</p>
10:15 AM	Coffee/Tea Break
10:30 AM	<p>Session 19: Agriculture and Water Survey</p> <p>Lead Discussant: Robert Mendelsohn</p> <p><i>Topics to be covered:</i></p> <p style="padding-left: 40px;">Survey Design</p> <p style="padding-left: 40px;">Sampling</p>
12:00 PM	Lunch
1:00 PM	<p>Session 20: Building Sustained Capacities to Supporting Climate Resilient Sectoral Planning</p> <p>Lead Discussant: Ashley Palmer (UNDP)</p>
2:00 PM	<p>Session 21: Next Steps</p> <p><i>(Chair: Robert Dobias, ADAPT Asia-Pacific and Pradeep Kurukulasuriya, UNDP)</i></p> <p style="padding-left: 40px;">Work Plan between March and August/ Software requirements for next training</p> <p style="padding-left: 40px;">Linking to ongoing LDCF/SCCF/AF/NAPs projects</p> <p style="padding-left: 40px;">Technical Support available from Bangkok</p> <p style="padding-left: 40px;">Communities of Practice</p>
6:00 PM	Closing

Resource Persons' Biographies

Dr. Robert Mendelsohn

Yale University

Dr. Mendelsohn is an economist at Yale University who specializes in valuing the environment. He has developed methods to value air pollution emissions, hazardous waste pollution, wildlife populations, recreation, oil spills, timber, and non-timber forest products from tropical forests. For the last 20 years, Dr. Mendelsohn has measured the impacts of climate change around the world to agriculture, forests, energy, coastal resources, and water. A theme of this research is including adaptation.

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Dr. Emanuele Massetti

Yale School of Forestry & Environmental Studies

Emanuele Massetti is Postdoctoral Fellow at the Yale School of Forestry & Environmental Studies, Senior Researcher at the Sustainable Development Unit of Fondazione Eni Enrico Mattei (FEEM) and Research affiliate at the Euro-Mediterranean Centre for Climate Change (CMCC). He is Lead Author for the Working Group III of the Fifth Assessment Report of the IPCC. He holds a PhD in Economics from Catholic University of Milan, a MSc in Economics from University College London and a MA in Economics from Brown University. He worked as consultant for the EBRD, the OECD, the UNDP and the UNEP. His main research interests are in Environmental Economics. He is one of the authors of WITCH, an Integrated Assessment Model to study optimal climate mitigation policies. Emanuele is now working at methods to estimate impacts of climate change and adaptation, especially in agriculture.

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Dr. Brian Hurd

New Mexico State University

Brian H. Hurd is Professor of Agricultural Economics and Agricultural Business at New Mexico State University in Las Cruces, New Mexico. He earned MS and PhD degrees in Agricultural Economics from the University of California, Davis, and graduated magna cum laude from the University of Colorado, Boulder with a BA degree in Economics and in Environmental Conservation. Dr. Hurd is distinguished for his research and teaching on the economic assessment of climate change impacts and adaptation, non-market valuation of natural resources, and the economics of water resources and agro-environmental systems. His works are published in leading scientific journals including the Journal of the American Water Resources Association, Journal of Agricultural and Resource Economics, Climate Research, Climatic Change, and the American Journal of Agricultural Economics.

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Ms. Olivia Montecillo
Farm Management Economist

Olivia Montecillo is from Australia and has been with the Department of Primary Industries in Victoria since 1991. She is a Farm Management Economist. Her work is mainly on natural resource management, conducting economic analysis of government programs and projects in the irrigation areas of Northern Victoria. She has previously worked in the Philippines - at the National Economic and Development Authority (Region IV) and Fiber Industry Development Authority. Olivia graduated from the University of the Philippines at Los Baños with Bachelor and Master's degrees in Agribusiness Management and from the Asian Institute of Technology (Thailand) with MS in Rural-Regional Planning.

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Dr. Benoit Laplante
Asian Development Bank

Dr. Laplante holds a Ph.D. in environmental economics from Queen's University, Kingston, Ontario, Canada. He has 25 years of experience in the field of environmental policies, environmental economics, environmental financing, and in the conduct of economic valuation of environmental impacts of development projects. In South East Asia, Dr. Laplante was actively involved in a large number of projects in Cambodia, China, Indonesia, Lao PDR, Malaysia, Philippines, Thailand, and Viet Nam. He worked on projects funded by multilateral institutions (such as ADB, UNDP, and World Bank) as well as bilaterals such as Canada, Denmark, Sweden, and the United States. Among other relevant and recent activities, Dr. Laplante was an active member of the World Bank study, The Economics of Adaptation to Climate Change, and is currently working with the Asian Development Bank on the economics of adaptation to climate change, in particular preparing technical guidelines to assess options to climate-proof development projects.

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Dr. Dilip Kumar Gautam
Regional Integrated Multi-Hazard Early Warning System for Africa and Asia (RIMES)

Dr. Gautam holds a Doctorate degree in Hydroinformatics from Brandenburg University of Technology. He has been trained on tracer hydrology, flood risk analysis and mapping, hydroinformatics systems; world-wide-web based collaborative engineering in hydroscience, GIS and RS for integrated water resources management, Urban Flood Modelling and Disaster Management, Extreme Flood Modeling and climate risk management. As a Senior Hydrologist at RIMES, Dr. Gautam has been involved in developing hydrologic/ hydraulic model for flood forecasting and warning in the South Asian and Pacific region, flood risk analysis and mapping, quantitative assessment of climate



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change impacts on water-related activities at the basin scale and conducting training courses on flood forecast modeling.

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