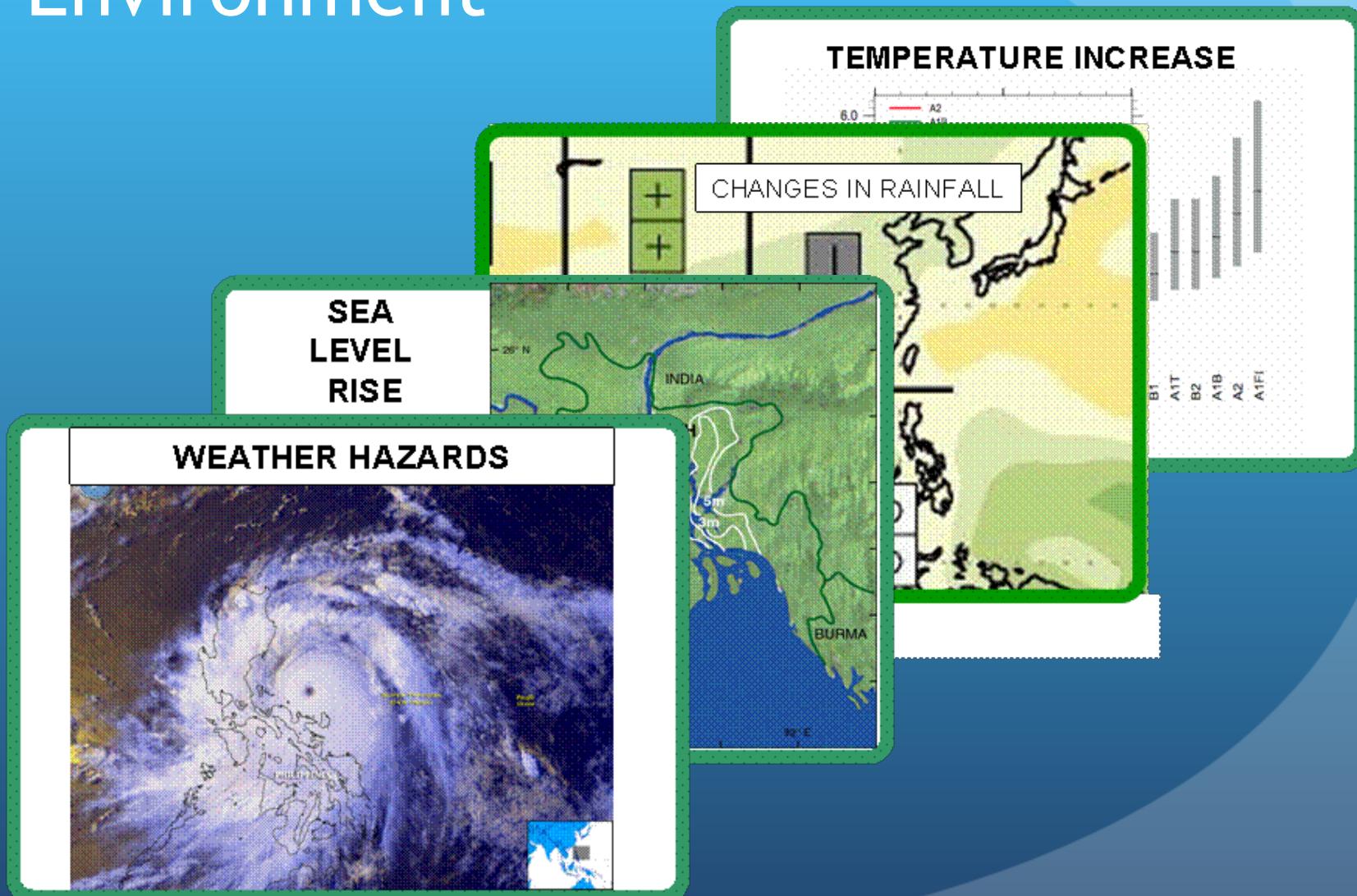


Climate Change Researches in UP Los Baños



Lucille Elna Parreño-de Guzman
Interdisciplinary Program on Climate Change (IdPCC)
University of the Philippines Los Baños
College, Laguna

Climate Change Effects Relevant to Agriculture, Natural Resources and Environment





UPLB Interdisciplinary Program on Climate Change (UPLB-IdPCC)

UPLB-IdPCC

- response of UPLB as an academic and scientific community
- June 2007 - formation of the University wide Committee on climate change
- composed of 25 experts and scientists from different units/colleges

Goal of UPLB-IdPCC

To contribute to the efforts of developing and testing mitigation strategies for climate change and to improve the adaptive capacity of the human system, environment, agriculture and natural resources sectors in coping with the threats brought by climate change.

Specific Objectives

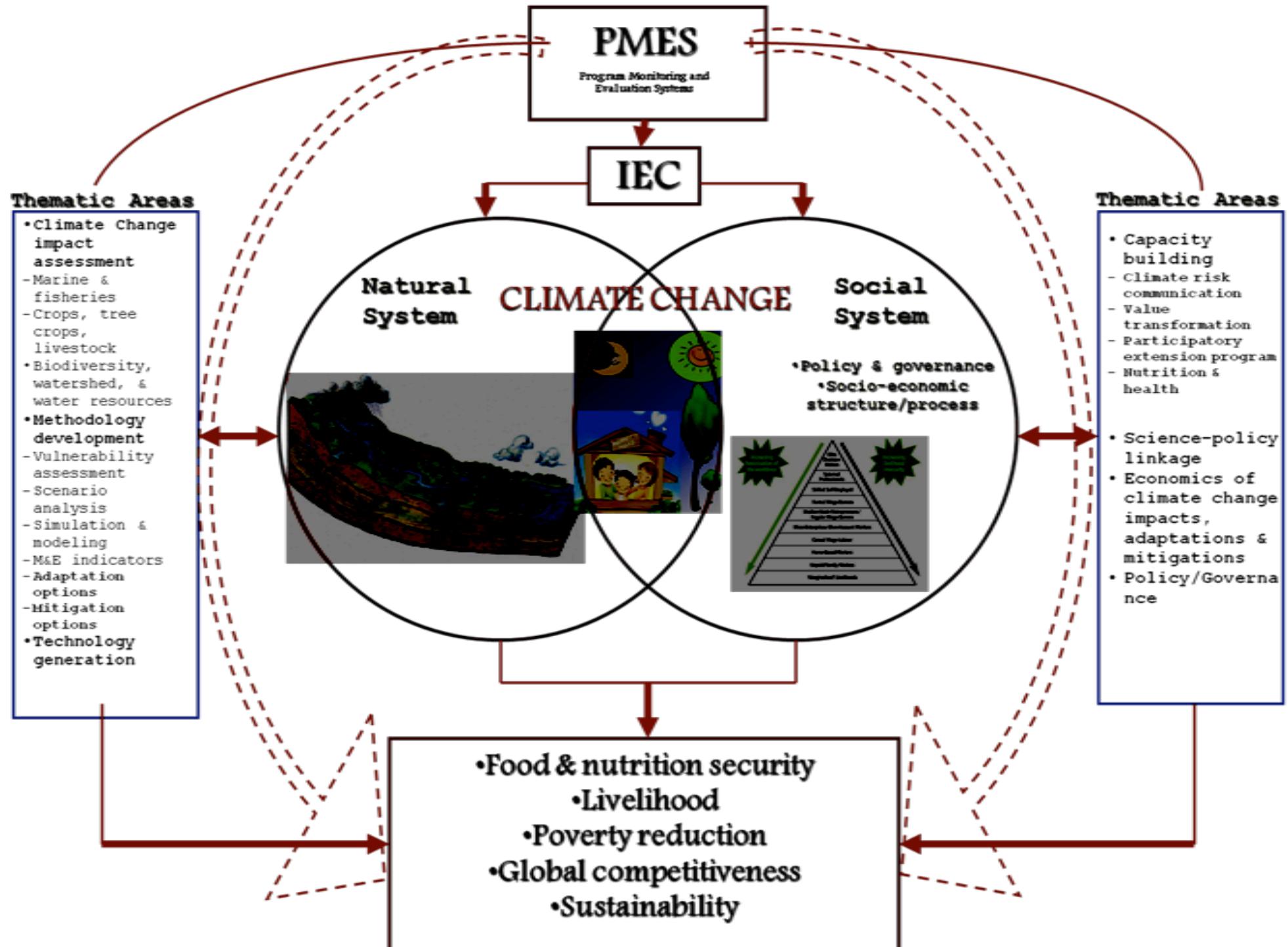
1. Develop methodologies for climate risk assessment and management strategies;
2. Design, test and validate decision support systems for governance, policy formulation and program implementation;
3. Improve the adaptive capacity and resilience of farmers and fishermen, communities and local government units through provision of relevant technologies and information;

Specific Objectives

4. Generate innovative and clean/green technologies for the mitigation and adaptation to climate change;
5. Assist in mainstreaming climate change science in all levels of the educational system; and
6. Work for the institutionalization of UPLB Center for Climate Change and Disaster Risk Reduction.

Component Activities

1. Vulnerability and impact assessments
2. Climate change adaptations and mitigation
3. Capacity building of various sectors
4. IEC
5. Knowledge management





UPLB Climate Change R&D Projects

Completed Projects

1. MDG-F 1656 Project - Strengthening the Philippine Institutional Capacity to Adapt to Climate Change (SPICACC)
 - Development of Sectoral Vulnerability and Adaptation Assessment at the Macro Level
 - Development of Monitoring and Evaluation Framework/ System
 - Compendium of Good and Innovative Climate Change Adaption Practices in Agriculture and Forestry/Biodiversity Sectors (Methodology for V&A Assessment)
 - Capacity Building of LGUs, DA, DENR and PCARRD Consortia in conducting Climate Change Vulnerability and Impact Assessment

Completed Projects

2. UPLBFI-EEPSEA PROJECT - Assessing the Impacts of Climate Change Adaptation in Selected Areas in Bicol Region, Philippines
 - Strengthening capacity of LGUs on CCA and DRR
 - Climate sensitive Comprehensive Land Use Planning for Region 5

Completed Projects

3. UPLBFI DA-FAO PROJECT SPICACC 3.1

- A. Design and Development of a Vulnerability Assessment Tool: Combining Scientific and Indigenous Knowledge for the Agricultural Sector of Benguet and Ifugao
- B. Capacity Building on the Developed Vulnerability Assessment Tool, Community Based Adaptive Strategies and Its Monitoring and Evaluation Procedures

Completed Projects

- Outputs:
 - training modules on vulnerability and impact assessment and monitoring and evaluation of adaptation strategies,
 - report on indigenous knowledge and tools for vulnerability and impact assessment, and
 - simplified climate change vulnerability assessment procedure for the agricultural sector in the Cordillera.

Completed Projects

4. Policy and Institutional Landscaping for Climate Risk Management under the Project "Climate Forecast Applications for Disaster Mitigation in Indonesia and the Philippines" (CPAf; January 2006 to June 2010; USAID and NOAA)
 - Outputs:
 - one monograph,
 - two journal articles,
 - four working papers,
 - two occasional reports, and
 - presentations in five conferences

Completed Projects

5. Analysis of the Climate Change Adaptation Behavior of Households, Communities and Institutions to a Typhoon Event (Cross Country Program Research) (CPAf; March 2008 to August 2010; IDRC-EEPSEA)

• Outputs:

- working papers on adaptive capacity and adaptation behavior of households and local institutions exposed to typhoon-associated risks in the Philippines;
- a paper on cross-country study on climate change adaptation in SE Asia; and
- policy briefs

Completed Projects

6. Framework for Assessing the Climate Change Vulnerability and Adaptation of the Philippine Indigenous People: The Case of Alangan-Mangyans in Baco, Oriental Mindoro, Philippines (CEM and SESAM; June 1, 2010 to May 11, 2011; CHED)

On-going Projects

1. Several researches on alternative energy and waste treatment which are geared towards climate change mitigation and adaptation (Chemical Engineering Department of CEAT; 2006-present)
2. Building Capacity to Climate Change in Southeast Asia (Cross Country Program Research) (CEM; January 2011 to December 2013; IDRC-EEPSEA)
3. Risk of Rice Tungro Epidemics Under Climate Change in the Philippines (CPC-CA; DA-BAR)

On-going Projects

4. Documentation of Indigenous Knowledge on Climate Change Adaptation (CSC-CA; DA-BAR)
5. Assessment of the Direct and Indirect Effects of Climatic Changes in Local Dairy Production (ADSC-CA; DA-BAR)
6. Vulnerability of the Philippine Mallard Duck (*Anas platyrhynchos*) Production to Changing Climatic Conditions (ADSC-CA; DA-BAR)

On-going Projects

7. Building Capacities for Climate Change Adaptation for Relevant Universities and Colleges and their Client Communities in the Philippines (PATLEPAM Project; December 2010 to December 2011; MDGF/UNDP/NEDA)

Project Proposals in the Pipeline

A. UPLB-PCARRD Project: An Integrated RDE Program for Building a Climate Robust AFNR Sector in the Philippines: Phase 1

- 6 projects proposed by PCARRD member consortia
- 4 projects proposed by UPLB-IdPCC members

Proposals in the Pipeline

- B. DA-BAR Project: Enhancing Food Security Through a Climate Change-sensitive Research, Development and Extension Program for Agriculture Fisheries
 - 1. Assessment and Development of Marginal Lands/ Grasslands for Expansion of Food Production Areas Using Lesser-Known Fruit Tree Species (SESAM)
 - 2. Exploring Application for Rainfall-Based Crop Insurance in the Philippines (CPAf)
 - 3. Incorporating Climate Risks Information in Agricultural Land Use Planning (SESAM)

Proposals in the Pipeline

4. Selection/Breeding Known Drought-Resistant, Pest/Disease Resistant and Flood-Tolerant Species for Climate Change Adaptation (CSC-CA)

Proposals in the Pipeline

C. Philippine Agricultural Development and Commercial Corporation /Department of Agriculture Project Proposal

- Components:
 1. Building the humane human settlements for the vulnerable groups to disaster and other climate related hazards;
 2. Developing, testing and promoting adaptive food production system to ensure food security;
 3. Watershed and environment rehabilitation; and
 4. Enhancing literacy and capacity of the communities to strengthen disaster preparedness among local people

THANK YOU FOR LISTENING!



For more information, please contact:
UPLB Interdisciplinary Program on Climate Change
c/o Dr. Ma. Victoria O. Espaldon, sesam@uplb.edu.ph