



# **SANREM-CRSP**

## **Project Activities in the Philippines**

**Victor B. Ella**  
**Philippine Host Country Coordinator**  
**and**  
**Professor, UPLB**

**IPM CRSP Annual Meeting**  
**Splash Mountain, Los Baños, Laguna**  
**August 2, 2011**



**USAID**  
FROM THE AMERICAN PEOPLE



# **SANREM Project Title**

***“Conservation Agriculture for  
Food Security in Cambodia  
and the Philippines”***

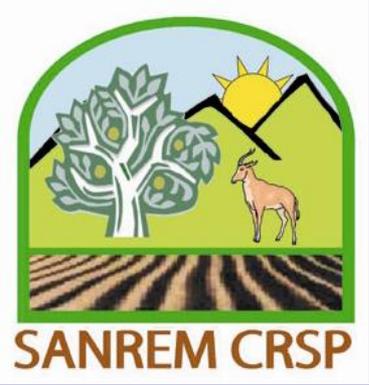




# Project Implementation Period

January 1, 2010 to September 30, 2014

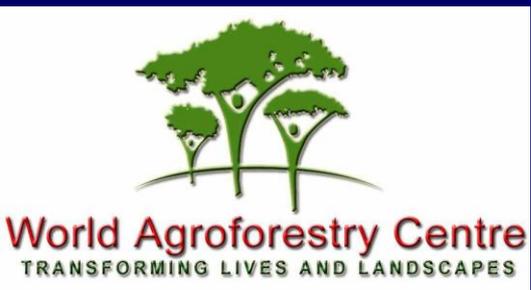




# Partnership



**North Carolina  
Agricultural  
and Technical State  
University**





# SANREM RESEARCH TEAM

## USA:

### Dr. Manuel Reyes

Principal Investigator, Biophysical Scientist and Professor  
North Carolina Agricultural and Technical State University  
(NCA&T)

### Dr. Osei Yeboah

Biophysical Scientist  
North Carolina Agricultural and Technical State  
University (NCA&T)





# SANREM RESEARCH TEAM

## Philippines:

**Dr. Victor Ella**

Host Country Coordinator, Biophysical  
Scientist and Professor, UPLB



**Dr. Maria Helen Dayo**

Gender and Socio-Economics Specialist  
and Professor, UPLB

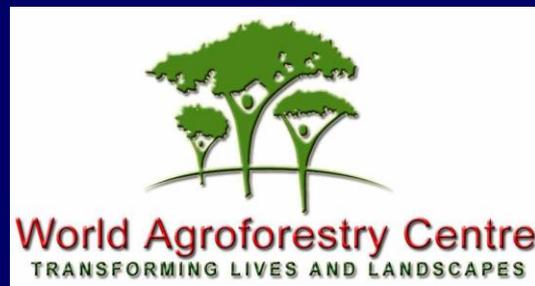


# SANREM RESEARCH TEAM

## Philippines:

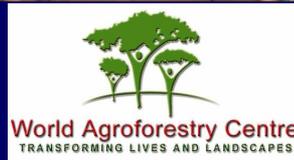
**Dr. Agustin Mercado, Jr.**

**Biophysical Scientist and Senior  
Researcher, ICRAF**





# SANREM RESEARCH TEAM





# CONSERVATION AGRICULTURE (CA)





# CA Philosophy

## Principles of Conservation Agriculture

- **M**inimum soil disturbance
- **C**ontinuous mulch cover
- **D**iverse species rotations



# Degraded Landscapes w/o CA





# Project Goal

To promote CONSERVATION AGRICULTURE as a technologically-feasible, economically-viable, environmentally-sustainable and gender-responsive production system that will contribute to food security of small farm communities in the Philippines





# Project Objectives (GETS)

1. **G-Gender:** Identify gendered limitations and advantages that can promote adoption of CAPS and determine if CAPS will increase labor burden on women
2. **E-Economics:** Identify field-and-farm-level CAPS that will minimize smallholder costs and risks while maximizing benefits and adoption



# Project Objectives (GETS)

3. T-Technology network: Quantify the effectiveness of SANREM-supported farmer groups in training knowledge leaders, in being knowledge transmission points, and in facilitating network connections leading to widespread adoption of CAPS; and



# Project Objectives (GETS)

4. **S-Soil:** Assess soil quality and measure crop yield and biomass from CAPS, and compare them with soil quality and crop yield and biomass from conventional plow-based systems.

# Project Site



Claveria, Misamis Oriental  
(Researcher-managed and  
Farmer-managed sites)



# Project Activities

- Crop yield and biomass monitoring
- Soil quality monitoring
- Socio-economic analysis
- Gender sensitivity analysis
- Establishment of technology network
- Other activities (crop modeling, water balance studies, soil carbon dynamics, solute transport analysis, etc.)

# Project Activities



Baseline survey (biophysical & socio-economic)

# Project Activities



SANREM Kick-off Meeting  
Claveria, April 2010

# Project Activities



## Establishment of CAPS treatments

# Project Activities



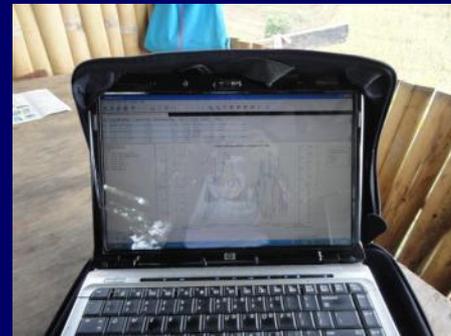
## Soil quality monitoring

# Project Activities



Crop yield & biomass monitoring

# Project Activities



## Water balance studies

# Project Activities



Gender & socio-economic monitoring

# Project Activities



Farmers' field day  
Claveria, January 2011

# Project Activities



Soil quality training and workshop  
Claveria, June 2011

# Project Activities



Annual SANREM-CRSP Meeting  
Virginia Tech, May 2011



# Project Activities



International Conference on Conservation Agriculture  
Phnom Penh, Cambodia, July 2011



# Opportunities for Collaboration with IPM-CRSP

- Pest management under CAPS
- Weed control under CAPS
- Rodent control under CAPS
- Herbicide use issues
- Others ???

# ***Thanks!!!***

## **Contact Address:**

**Dr. Victor B. Ella**

**Professor**

**Land and Water Resources Division**

**Institute of Agricultural Engineering**

**College of Engineering and Agro-Industrial  
Technology**

**University of the Philippines Los Baños**

**College, Laguna 4031**

**PHILIPPINES**

**Tel/Fax: (63-49)-536-2387**

**E-mail: [vbella@up.edu.ph](mailto:vbella@up.edu.ph) or [vbella100@yahoo.com](mailto:vbella100@yahoo.com)**