

AgMIP/GRA Workshop on Modeling Mitigation and Adaptation Co-Benefits (MAC-B)

October 16, 2020 9:00am to 12:00pm Eastern Daylight Time

**Part of the AgMIP Webshop on Food Systems, Shocks, and Actions
October 12-16, 2020**

Register Here: <https://agmip.org/agmip8-virtual-webshop/>

DESCRIPTION

AgMIP, in collaboration with the Integrative Research Group of the Global Research Alliance on Agricultural Greenhouse Gases (GRA), is conducting a series of activities to develop a modeling framework and protocols for determining co-benefits of mitigation and adaptation. The purpose of this workshop is to identify and evaluate options for assessing combined climate mitigation and adaptation co-benefits (MAC-B) in a range of agricultural systems that are country specific, while also being scalable and facilitating country-to-country transfers of knowledge for regional and global benefit.

Specifically, the workshop will engage in developing multi-model protocols for integrated biophysical and socio-economic assessments that combine both mitigation and adaptation for climate change. Additionally, we seek to uncover and better understand key sources of positive outcomes as well as uncertainties and constraints on MAC-Bs across these integrated processes in order to enable the development of effective state, regional, and global pathways to achieve these co-benefits.

GOALS and OUTCOMES

The goals and outcomes of the MAC-B workshop include:

- Initiate AgMIP/GRA modeling framework for mitigation and adaptation co-benefits
- Plan for a peer-reviewed journal article for the AgMIP8 AGU Special Collection on rationale and protocols for the mitigation and adaptation framework
- Develop a set of pilot projects to test the MAC-B framework and protocols, comprised of selected regions with contrasting agroecosystems and challenges.

TIME AND “PLACE”

9:00-12:00 EDT (3 hours)

Friday, 16 October 2020

Zoom

AGENDA

Time

Activity

9:00-9:15 AM

Welcome, Introductions, and Goals of Workshop

Cynthia Rosenzweig, Sonali McDermid and Roberto Valdivia

9:15-10:15 AM

Introduction to MAC-B and Regional Contexts

Regional Contexts Panel (40 min)

Moderator: Sonali McDermid

Questions

1. What are mitigation and adaptation challenges in your region?
2. What mitigation and adaptation projects are ongoing in your region and how could modeling be used to improve them?
3. What potential pilot projects would be useful for responding to climate change challenges in your region?

Panelists

South Asia

V. Geethalakshmi

Southeast Asia

Mai Van Trinh

Latin America and the Caribbean

Francisco Meza

Africa

Sabine Homann

Q&A (15 min)

Break (5 min)

10:15-10:45 AM

Global Context

Plenary (20 min)

Jean-Francois Soussana

The global context of mitigation and adaptation in agriculture – Scope of co-benefits, current distribution of funding, potential synergies, and organizational leadership

Q&A (10 min)

10:45-11:15 AM

Regional Pilot Projects

Charge to Breakouts (5 min)

Jean-François Soussana and Sonali McDermid

Questions/Tasks

- 1) What specific MAC-B projects might be supported in the region?
- 2) What would be the key focus?
- 3) Who are potential collaborating partners?
- 4) What is the role of organizations (e.g., GRA, development groups, and funds) in supporting these projects)

Breakouts (20 min)

Exploring opportunities and constraints in these regional contexts.

1. South Asia
Facilitators: V. Geethalakshmi, Anthony Whitbread
2. Southeast Asia
Facilitators: Mai Van Trinh, Alex Ruane
3. Latin America and the Caribbean
Facilitators: Francisco Meza, Kelly Witkowski
4. Africa
Facilitators: Sabine Homann, Ibrahima Hathie

Breakout Report Backs (5 min)

11:15-11:45 AM

Models, Tools, and Data

Round Robin (5 mins per model)

Moderator: Petr Havlik (tbc)

Questions:

1. How does your model handle mitigation and adaptation processes and their interactions?
2. What are the challenges to modeling MAC-B?
3. What data are in hand and what data are needed?
4. What could a modeling protocol entail that would enable multi-model assessment of MAC-B?

Panelists:

Keith Paustian, CENTURY

Tao Li, DNDC

Bruno Basso, SALUS
Christoph Müller, LPJmL
Pete Smith, Data Needs

11:45-12:00 PM

Cross-Cutting Dimensions, Final Thoughts, and Way Forward

**Jean-François Soussana, Sonali McDermid, Roberto Valdivia, and
Cynthia Rosenzweig**

Closing remarks and Intention Setting for next steps, follow-up