

AgMIP10

Responding to
Climate Change Urgency

*March 31-April 4, 2025
CIMMYT, El Batan, Mexico*

Workshop Themes

- Science-Policy Linkages for Food Systems
- Technology Across Scales
- Model Application in Low-Yielding/Low-Data Environments
- Crop and Livestock Modeling
- Climate Resilience for Food and Nutrition Security
- Mitigation and Adaptation Co-Benefits and Life Cycle Analysis

Monday, March 31, 2025

9:00-12:00 Side Meetings

- 1 Global Gridded Crop Modeling Intercomparison
- 2 AgMIP Wheat Team
- 3 AgMIP Ozone Team
- 4 Global Economics Team

13:00-16:00 Side Meetings

- 1 Global Gridded Crop Modeling Intercomparison (Part 2)
- 2 Low-Input Systems
- 3 Calibration

Tuesday, April 1, 2025

8:00-9:00 **Arrival and Registration**

9:00-9:50 **Plenary AgMIP10 Kick-off**

Welcome Bram Govaerts, CIMMYT
AgMIP Executive Committee

Keynote Manuel Otero, IICA

Keynote AgMIP10 Overview Cynthia Rosenzweig, Columbia University

9:50-10:30 **Session 1 Plenary Science-Policy Linkages for Food Systems**

Chair: C. Rosenzweig

Panelists Manuel Otero, IICA
Hayden Montgomery, Global Methane Hub (virtual)
Barron Orr, UNCCD
Bram Govaerts, CIMMYT

10:30-11:00 **Report Back from March 31 Side Meetings**

11:00-11:30 **Coffee Break & Posters**

11:30-13:00 **AgMIP Team Working Sessions**

What are main AgMIP activities in this area?
How can new participants get involved?
What are plans and priorities for the next year?

WS1: Landscape-scale modeling & Crop loss
WS2: Crop model improvement
WS3: Machine learning and data assimilation
WS4: Economics and trade modeling in a changing food system

13:00-14:30 **Lunch**

14:30-15:30 **Session 2 Plenary Technology Across Scales**

Chair: C. Müller

Keynote Geraldo Martha, EMBRAPA

Panelists Daniel Mason-D'Croze, Cornell
Frank Ewert, ZALF
Ioannis Athanasiadis, WUR
Sarah Garland, TripleHelix (virtual)

15:30-16:00 Coffee Break & Posters

16:00-17:30 Paper Presentation Sessions

What are the latest research results and key findings for applications?

PS1: Regional integrated assessments of risk and adaptation options

PS2: Improving crop models to capture seasonal climate responses

PS3: Data assimilation and remote sensing

PS4: Modeling mitigation and soils

18:00-20:00 Evening Reception

Keynote Purvi Mehta, Gates Foundation (virtual)

Wednesday, April 2, 2025

9:00-10:15 Session 3 Plenary

Model Application in Low-Yielding/Low-Data Environments

Chair: A. Whitbread

Keynote Gatien Falconnier, CIRAD

Panelists Jacob Emanuel Joseph, ILRI

Diego Pequeno, CIMMYT

Nataraja Subash, ICAR

10:15-10:30 Report Back from Day 1 Working Sessions

10:30-11:00 Group Photo & Hats

11:00-11:30 Coffee Break & Posters

11:30-13:00 Paper Presentation Sessions

What are the latest research results and key findings for applications?

PS5: Food systems, trade, and diets in a changing world

PS6: Data and information technologies advances for agricultural modeling

PS7: Modeling dryland and other non-traditional/opportunity crops

PS8: Land, water, and climate modeling

13:00-14:30 Lunch

14:30-16:00 AgMIP Team Working Sessions

What are main AgMIP activities in this area?

How can new participants get involved?

What are plans and priorities for the next year?

WS5: Regional assessment for adaptation and mitigation policy planning

WS6: Simulating opportunity crops & Low-input agricultural systems

WS7: Calibration, model, and modeler uncertainty

WS8: Modeling food system mitigation

16:00-16:30 Coffee Break & Posters

16:30-17:30 Session 4 Plenary Crop and Livestock Modeling

Chair: S. Asseng,

Keynote Heidi Webber, ZALF

Panelists Randall Boone, Colorado State University

Santiago Cuadra, EMBRAPA

Jonas Jägermeyr, Columbia University

Thursday, April 3, 2025

8:00-8:45 AgMIP Structural Feedback Drop-In

Discuss AgMIP Community structure and feedback received at AgMIP
Coordination poster

9:00-9:30 Plenary EAT-Lancet

Keynote Mario Herrero, Cornell

9:30-10:30 Session 5 Plenary

Climate Resilience for Food and Nutrition Security

Co-Chairs: M. Herrero, L. Tall

Keynote Tafadzwanashe Mabhaudhi, LSHTM / INR, South Africa

Panelists Vimbayi Chimonyo, CIMMYT

Pierre Martre, INRAE

Kevin Karl, Columbia University

10:30-10:45 Report Back from Day 2 Working Sessions

10:45-11:00 Coffee Break & Posters

11:00-12:30 Paper Presentation Sessions

What are the latest research results and key findings for applications?

PS9: Landscape-scale modeling and Crop losses

PS10: Developing crop and livestock model products for practical application

PS11: Science of calibration, configuration, and ensembles

PS12: Projections of future crop productivity

12:30-14:00 Lunch

14:00-15:00 Session 6 Plenary

Mitigation and Adaptation Co-Benefits and Life Cycle Analysis

Chair: H. Lotze-Campen

Keynote Sonali McDermid, NYU

Panelists Yushu Xia, Columbia University

Tek Sapkota, CIMMYT

Pablo Manzano, Basque Centre for Climate Change (virtual)

15:00-15:30 Coffee Break & Posters

15:30-17:00 Radical Collaboration Sessions

What challenges need new partnerships in this area?

How can we overcome barriers to progress?

What new AgMIP activities are needed to enable progress?

RCS1: Planetary boundaries, biodiversity, and water quality on agricultural landscapes

RCS2: Known unknowns in crop impact projections

RCS3: Agricultural adaptation and mitigation pathways and limitations

RCS4: Models as a tool for crop breeding

17:00-17:30 Final Plenary Wrap-Up

Report Back from Radical Collaboration Sessions

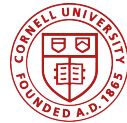
Reflections, Closing Remarks, and Way Forward

Friday, April 4, 2025

9:00-12:00 Side Meetings AM

- 1 Territorial Socio-Ecosystems
- 2 Soybean Team
- 3 Food System Emissions
- 4 Rice Modeling for Mitigation and Adaptation
- 5 Impacts and Attribution of Excessive Rainfall and Drought: Maize Yield in Low-Input Smallholder Systems

The AgMIP10 Agenda is subject to change. A final agenda will be available in the coming weeks.



Cornell University



Technische Universität München

