

A national conference on

MAKING CLIMATE-SMART AGRICULTURE WORK

Integrating science, modeling and economics to help farmers, ranchers and foresters mitigate and adapt to the challenges of climate change

A Virtual Online Conference

May 24-26, 2022

WORKING AGENDA

Agenda subject to change

NOTE:	<i>We are continuing to refine discussion topics as we work with our speakers and panelists. Updates will be posted here and announced through the AgMIP twitter feed:</i>
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Day 1 - Tuesday, May 24, 2022 - 11:00 AM to 3:30 PM Eastern

11:00 AM Eastern

Welcome - *Goals and design of the conference*

- Dr. Terry Nipp, Director of Policy and Development, Agricultural Model Intercomparison and Improvement Project (AgMIP)
- Dr. Cynthia Rosenzweig, Senior Research Scientist, Goddard Institute for Space Studies, NASA

Climate-Smart Agriculture and Climate-Smart Commodities

Climate-Smart Agriculture – *Supporting farmers and rural communities*

12:00 PM Eastern

Getting there: How science, data, modeling & economics can help make CSA work

1:00 PM Eastern

Why CSA matters to farmers, ranchers and foresters and what they're asking

2:00 PM Eastern

CSA data, models and science: What we know so far

- The science of soil carbon sequestration and agriculture
- U.S. GHG mitigation potentials of agriculture and forestry
- Data collection technologies and challenges
- Associating agricultural practices and land management with climate benefits
- Incorporating climate with indigenous and regenerative farming practices

3:30 PM Eastern - *Adjourn for the day*

Day 2 - Wednesday, May 25, 2022 - 11:00 AM to 3:30 PM Eastern

11:00 AM Eastern

The Bottom Line: Assessing CSA profitability, adoption and sustainability

- Trade off analyses
- Coupling National, Regional and Farm-Level Models
- Managing risk and decision analysis
- Understanding barriers for farmer adoption of climate-smart practices
- Keeping engaged with farmers

12:30 PM Eastern

Supporting COMET and modeling CSA at farm and landscape scales

- Supporting COMET
- Farm operations within landscapes and watersheds
- Integrated cropping systems and Climate-Smart Agriculture
- Range, grasslands, forests and livestock

2:00 PM Eastern

Regional Integrated Assessments: Integrative multi-model solutions

- Connecting farm management with environmental benefits
- Keeping engaged with stakeholders
- Developing common protocols and ensemble modeling

3:30 PM Eastern - *Adjourn for the day*

Day 3 - Thursday, May 26, 2022 - 11:00 AM to 3:30 PM Eastern

11:00 AM Eastern

The Role of Science in Supporting Climate-Smart Agriculture

Engaging the Universities and Building Partnerships

12:00 PM Eastern

New Horizons: Incorporating new science and technologies with foundational models

- Satellite and Drone Imagery and Data
- AI, ML and Foundational Models

1:30 PM Eastern

Building new partnerships: New approaches and opportunities for collaboration

3:00 PM Eastern

Next steps

3:30 PM Eastern - *Conference adjourns*

Side sessions

Climate literacy for agriculture (90 min)

- Presentations and discussions about current climate change projections and the estimate impacts on agricultural production and food systems, both globally and for the U.S.

AgMIP: Model Intercomparisons and Improvements

- More in-depth introduction to AgMIP and developing common data and model protocols for regional integrated assessments.