

Regional and Global Model Analysis

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**U.S. Department of Energy
Office of Science**

**Office of Biological & Environmental Research
*Earth and Environmental Sciences Division***

**Principal Investigator Meeting
October, 2020**



**U.S. DEPARTMENT OF
ENERGY**

**Office
of Science**

**Office of Biological
and Environmental Research**



Meeting Objectives

- **Review of science accomplishments by the RGMA projects**

Communicate

- **Facilitate collaboration across projects**

Connect

- **Produce a science report that summarizes the major accomplishments and identifies short- and long-term research needs**

Collaborate



Meeting Logistics

Lobby - 2020 RGMA PI Meeting x +

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Regional & Global Model Analysis Program Area PI Meeting October 13-16, 2020

Windows City

IMPORTANT DATES

Abstract submissions deadline: September 16, 2020
Agenda completed and available: September 23, 2020

Registration deadline: September 23, 2020
Indicate choices for Breakout sessions: September 30, 2020

Meeting Agenda
(Static)

Meeting Agenda
(Interactive)

Abstract
Submission
Information

Google
Drive and
Slack Links

Breakout
Zoom Links

Plenary
Zoom Link

The DOE Office of Science (SC) is fully committed to fostering safe, diverse, equitable, and inclusive work, research, and funding environments that value mutual respect and personal integrity. Effective stewardship and promotion of diverse and inclusive workplaces that value and celebrate a diversity of people, ideas, cultures, and educational backgrounds is foundational to delivering on the SC mission. The scientific community engaged in SC-sponsored activities is expected to be respectful, ethical, and professional. For more information



Meeting Agenda

Tuesday, October 13, 2020		
11:00 Welcome, Introductions and Expectations		
11:00	Sharlene Weatherwax, Associate Director of Science for BER	
11:10	Gary Geernaert, Director of Earth and Environmental Systems Sciences Division	
11:20	Renu Joseph, Program Manager for Regional and Global Model Analysis	
11:35	Christiana Stan, IPA for Earth and Environmental System Modeling	
11:45 Project Overviews 1.1 Co-Chairs: Daehyun Kim, Colin Zarzycki		
11:45	WACCEN - Water Cycle and Climate Extremes Modeling	L. Ruby Leung
12:00	Monsoon Extremes: Impacts, Metrics, and Synoptic-Scale Drivers	William Boos
12:10	RUBISCO - Reducing Uncertainties in Biogeochemical Interactions through Synthesis and Computation	Forrest Hoffman
12:25	Evaluating the Influence of Plants on Hydrologic Cycling: Quantifying and Validating the Role of Plant Processes and Stomatal Conductance	Abigail Swann
12:35	ICOM - Integrated Coastal Modeling	Ian Kraucunas
12:50	Modeling Arctic Storms and Impacts on Diminishing Sea Ice	John Walsh
13:00 Early Break		
13:30 Breakout Groups 1		
	1.1 Convection and Surface-Atmosphere Interactions	Leads: Ruby Leung, Gabe Kooperman
13:30	Whitepaper overview	Ruby Leung, Gabe Kooperman
Data and Analysis		
13:45	Development of a Global High-resolution Mesoscale Convective System Tracking Database	Zhe Feng
13:50	Global Mesoscale Convective System Latent Heating Characteristics from GPM and IMERG Retrievals	Nana Liu
13:55	Toward an Improved Estimate of Climate Sensitivity and its Application to Key Climate Metrics – Surface Air Temperature Datasets	Robert Junod
14:00	The propagating environments for the initiation of summertime MCSs over the U.S. Great Plains and the role of middle	FengFei Song




Meeting Agenda

Lobby - 2020 RGMA PI Meeting x Agenda - 2020 RGMA PI Meeting x Static Agenda - 2020 RGMA PI M x +





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Apps







Plenary Session

Breakout Sessions for Tuesday, October 13

 Coastal	 Convection	 Ecosystem	 Synoptic
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Breakout Sessions for Wednesday, October 14

 Cloud & Aerosol	 Extremes	 HighLat	 MultiYear
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All times displayed are in Eastern Time

[View the Static Version of this Agenda](#)

The [agenda](#) is also available as a PDF file. Adobe Reader may be necessary to view PDF files on your computing device. If you don't have the latest version of Reader, you can [download a free copy](#) from Adobe.

Search for presentation ... Agenda Area Presenter

Plenary - Day 1 AM

>	Sharlene Weatherwax, Associate Director of Science for BER 11:00 AM-11:10 AM	10/13/20
>	Gary Geernaert, Director of BER Earth and Environmental Systems, Science Division	10/13/20



Zoom Links

Breakout Sessions

Breakout Sessions for Tuesday, October 13

- Coastal
- Convection
- Ecosystem
- Synoptic

Breakout Sessions for Wednesday, October 14

- Cloud & Aerosol
- Extremes
- HighLat
- MultiYear

Lobby White Papers Breakouts View Agenda

cvent

Meeting Overview

Tuesday, October 13, 2020				Wednesday, October 14, 2020				Thursday, October 15, 2020				Friday, October 16, 2020																							
11:00 - 13:00 EDT																																			
Welcome, Introductions & Expectations				Introduction to Other EESM Activities				Breakout Group 1 Reports				Awards and Acknowledgements																							
Project Overviews 1.1				Project Overviews 2.1				Project Overviews 3.1				Breakout Group 2 Reports																							
												Artificial Intelligence-Machine Learning Panel																							
13:00 - 13:30 EDT																																			
Early Break				Early Break				Early Break				Adjourn																							
13:30 - 15:30 EDT																																			
Breakout Group 1.1	Breakout Group 1.2	Breakout Group 1.3	Breakout Group 1.4	Breakout Group 2.1	Breakout Group 2.2	Breakout Group 2.3	Breakout Group 2.4	Updates from Working Groups, Model Intercomparison Projects, and Collaborative Activities				<table border="1"> <tr> <th colspan="4">Legend</th> </tr> <tr> <td colspan="4">Plenary Session</td> </tr> <tr> <td colspan="4">Breakout Sessions</td> </tr> <tr> <td colspan="4">Breaks and Meals</td> </tr> <tr> <td colspan="4"> </td> </tr> </table>				Legend				Plenary Session				Breakout Sessions				Breaks and Meals							
Legend																																			
Plenary Session																																			
Breakout Sessions																																			
Breaks and Meals																																			
Late Break				Late Break				Late Break																											
16:00 - 17:00 EDT																																			
Breakout Group 1.1	Breakout Group 1.2	Breakout Group 1.3	Breakout Group 1.4	Breakout Group 2.1	Breakout Group 2.2	Breakout Group 2.3	Breakout Group 2.4	Cross-Cutting Datasets and Analysis Tools																											
17:00 - 18:00 EDT																																			
Project Overviews 1.2				Project Overviews 2.2				Project Overviews 3.2																											
Adjourn				Adjourn				Adjourn																											



Google Folders and Slack Channels

The screenshot shows a web browser window with two tabs: "Lobby - 2020 RGMA PI Meeting" and "Whitepapers - 2020 RGMA PI Meeting". The address bar shows the URL: web.event.com/event/038818ee-f227-4b6a-863d-4b5086d3283e/websitePage:e9c7d994-a807-4085-9555-ce163ea52d44. The main content area displays a grid of breakout sessions, each with a title, a Google Drive icon, and a Slack Workspace icon.

Breakout Session	Google Drive	Slack Workspace
Cloud & Aerosol Breakouts	Google Drive	Slack Workspace
Coastal Breakouts	Google Drive	Slack Workspace
Convection Breakouts	Google Drive	Slack Workspace
Ecosystem Breakouts	Google Drive	Slack Workspace
Extremes Breakouts	Google Drive	Slack Workspace
High Latitude Breakouts	Google Drive	Slack Workspace
MultiYear Breakouts	Google Drive	Slack Workspace
Synoptic Breakouts	Google Drive	Slack Workspace



Meeting Report

2017



RGCM PI Meeting

Whitepaper:
RGCM Clouds Research

EESM PI Meeting

Whitepapers:
Advancing Understanding
of Variability,
Predictability, & Change
Across Spatiotemporal
Scales
Earth System Modeling
and Analysis on
Interannual to Multi-
decadal Timescales

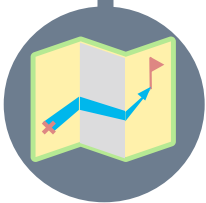
2019



RGMA PI Meeting

Report:
Current and Future Earth
System Sciences
Research

2021



2016



2018

Meetings

CMIP6 Hackathon

Precipitation
Metrics Workshop



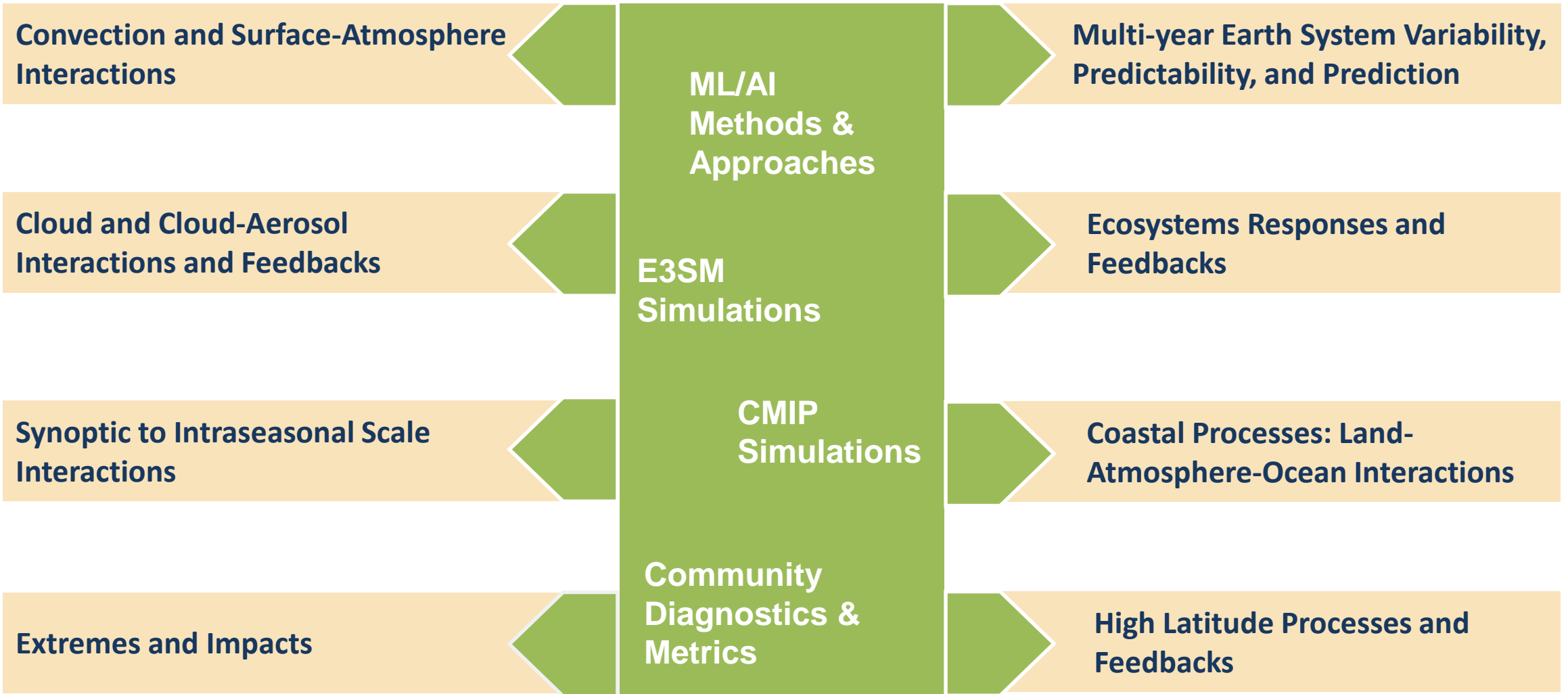
2020

Publish



Report on Current and Future Earth System Sciences Research

Office of Science



Tips for Virtual Meetings

Please **identify yourself** with your first + last name and institution in Zoom (e.g., Jane Doe, Univ of Maryland)

Unstable connection? Consider **stopping video** to save bandwidth.

You can use “raise hand” or “chat” functions if needed during presentations.

You are welcome to use the chat function in Zoom and **Slack channels**.



Please **mute** your line when not speaking. ORISE staff will mute those not presenting; you will need to **unmute** to ask questions.

All Chat & Q&A's are **recorded** (even if you think you are chatting with a particular individual)

Keep the discussion **professional**, avoid inflammatory comments, and keep the meeting moving.

If you are being **harassed**, unmute your microphone and tell the person running the meeting that harassment is occurring. Do not wait for the meeting to end to point out what is happening.