

2026 GCAM Annual Meeting

AGENDA



June 2-3, 2026
10:00 a.m. - 4:00 p.m. ET
Virtual via Zoom and Gather.Town

Tuesday, June 2, 2026

Plenary Session 1 Meeting Introduction

Moderator: Jae Edmonds, *JGCRI/PNNL*
Location: Zoom

TIME	TOPIC	SPEAKER/AFFILIATION
10:00 – 10:10 a.m.	Welcome Remarks	Jae Edmonds, <i>JGCRI/PNNL</i>
10:10 – 10:20 a.m.	PNNL Joint Institute Overview	Allen Fawcett, <i>JGCRI/PNNL</i>
10:20 – 10:30 a.m.	DOE Office of Science/BER	Renu Joseph, <i>DOE</i>
10:30 – 10:50 a.m.	Overview of GCAM and GCIMS	Marshall Wise, <i>JGCRI/PNNL</i>
10:50 – 11:00 a.m.	Break	

Plenary Session 2 Energy & Water

Moderator: Neal Graham, *JGCRI/PNNL*
Location: Zoom

TIME	TOPIC	SPEAKER/AFFILIATION
11:00 – 11:20 a.m.	Overview of GCIMS Hydrology and Water for Energy	Marshall Wise, <i>JGCRI/PNNL</i>
11:20 – 11:40 a.m.	GCAM-USA Subseasonal Electric Dispatch and Storage	Matthew Binsted, <i>JGCRI/PNNL</i>
11:40 – 12:00 p.m.	GCAM and E3SM Water and Energy Links	Kate Calvin, <i>JGCRI/PNNL</i>
12:00 – 12:10 p.m.	Session Discussion & Q&A	

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TIME	TOPIC	SPEAKER/AFFILIATION
12:10 – 12:40 p.m.	Break	

Plenary Session 3

AI/ML & GCAM

Moderator: Jen Morris, *MIT*

Location: Zoom

TIME	TOPIC	SPEAKER/AFFILIATION
12:40 – 1:00 p.m.	Handling Uncertainty in Complex Multisectoral Systems: Approaches and Tools	Abigail Snyder, <i>JGCRI/PNNL</i>
1:00 – 1:15 p.m.	Emulation Development	Claudia Tebaldi, <i>JGCRI/PNNL</i>
1:15 – 1:30 p.m.	Applying Emulation and Scenario Discovery to Uncertain Food Demand in GCAM	Brian O’Neill, <i>JGCRI/PNNL</i>
1:30 – 1:50 p.m.	AI in GCIMS: Past, Present, and Future	Chris Vernon, <i>PNNL</i>
1:50 – 2:00 p.m.	Session Discussion & Q&A	
2:00 – 2:15 p.m.	Break	

Plenary Session 4

GCAM Model Updates & Overview

Moderator: Marshall Wise, *JGCRI/PNNL*

Location: Zoom

TIME	TOPIC	SPEAKER/AFFILIATION
2:15 – 2:30 p.m.	Recent GCAM Model Development Updates	Pralit Patel, <i>JGCRI/PNNL</i>

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TIME	TOPIC	SPEAKER/AFFILIATION
2:30 – 4:00 p.m.	GCAM Sectoral & Modeling Overview	Kanishka Narayan, Hassan Niazi, & Patrick O'Rourke, <i>JGCRI/PNNL</i>
4:00 p.m.	Closing Remarks	Marshall Wise, <i>JGCRI/PNNL</i>

Wednesday, June 3, 2026

Plenary Session 5

GCAM and Other MSD Research Topics

Moderator: Abigail Snyder, *JGCRI/PNNL*

Location: Zoom

TIME	TOPIC	SPEAKER/AFFILIATION
10:00 – 10:20 a.m.	GCAM-Macro - Linking Energy, Agriculture, and Water	Jae Edmonds, <i>JGCRI/PNNL</i>
10:20 – 10:40 a.m.	Understanding the Drivers of Uncertain Data Center Growth	Stephanie Morris, <i>JGCRI/PNNL</i>
10:40 – 10:55 a.m.	MSD Analysis of Hydrology and Hydroelectric Power	Kamal Chowhurdy, <i>UMD</i>
10:55 – 11:10 a.m.	Multi-Sector Implications of Fisheries and Aquaculture in GCAM	Xin Zhao, <i>JGCRI/PNNL</i>
11:10 – 11:20 a.m.	Session Discussion & Q&A	
11:20 – 11:30 a.m.	Break	

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Plenary Session 6

Critical Minerals & Materials

Moderator: Allen Fawcett, *JGCRI/PNNL*

Location: Zoom

TIME	TOPIC	SPEAKER/AFFILIATION
11:30 – 11:35 a.m.	CMM Research Outlook & MSD Implications	Gokul Iyer, <i>JGCRI/PNNL</i>
11:35 – 11:50 a.m.	Modeling CMM Demands in GCAM	Yang Qiu, <i>JGCRI/PNNL</i>
11:50 – 12:00 p.m.	Estimating Future CMM Demands for Data Centers	Neal Graham, <i>JGCRI/PNNL</i>
12:00 – 12:20 p.m.	Modeling CMM Supplies in GCAM	Brinda Yarlagadda, <i>JGCRI/PNNL</i>
12:20 – 12:35 p.m.	Unconventional CMM Sources, Recycling & Trade	Gokul Iyer, <i>JGCRI/PNNL</i>
12:35 – 12:45 p.m.	Session Discussion & Q&A	
12:45 – 1:00 p.m.	Break	

Training Session 1

with Optional Drop-in Discussion Time with Plenary Presenters

Organizer: Maridee Weber, *JGCRI/PNNL*

Location: Gather.Town

TIME	TOPIC	SPEAKER/AFFILIATION
1:00 – 1:05 p.m.	Introduction to Trainings	Maridee Weber, <i>JGCRI/PNNL</i>
1:05 – 1:10 p.m.	Introduction to MSD-Live and Jupyter Notebooks	Casey Burleyson, <i>JGCRI/PNNL</i>
1:10 – 1:45 p.m.	Downloading and Running GCAM	Pralit Patel, <i>JGCRI/PNNL</i>
1:45 – 2:25 p.m.	Scenario Adjustments and User Modifications	Ellie Lochner, Matthew Binsted, <i>JGCRI/PNNL</i>

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TIME	TOPIC	SPEAKER/AFFILIATION
2:25 – 2:35 p.m.	Break	

Training Session 2

GCAM Tools

Organizer: Maridee Weber, *JGCRI/PNNL*

Location: Gather.Town

2:35 – 2:55 p.m.	Tethys	Hassan Niazi, <i>JGCRI/PNNL</i>
2:55 – 3:15 p.m.	Xanthos and Superwell	Mengqi Zhao, Hassan Niazi, <i>JGCRI/PNNL</i>
3:15 – 3:35 p.m.	Demeter	Kanishka Narayan, <i>JGCRI/PNNL</i>
3:35 – 3:50 p.m.	rgcam / rmap / rchart	Maridee Weber, <i>JGCRI/PNNL</i>
3:50 – 4:00 p.m.	Closing Remarks	Jae Edmonds, Marshall Wise, <i>JGCRI/PNNL</i>