#### Tuesday, May 13, 2025

Time	Session	Presenter	Торіс
	Welcome and		
9:00AM	Introduction (C120)	Paola Passalacqua, U Texas, Austin	Thematic Introduction
9:05AM	Community Updates	Greg Tucker, CSDMS Exec. Director	State of CSDMS
9:20 AM	Plenary Keynote (C120)	Volker Grimm, UFZ, Helmholtz	The Open Modeling Foundation: Operationalizing FAIR Principles
9:40 AM	Plenary Keynote	Gaia Stucky de Quay, MIT	TBD
10:00 AM	Plenary Keynote	Manzhu Yu, Penn State U	Spatiotemporal Methodologies for the Analysis and Prediction of Extreme Weather Events
10:20 AM	Plenary Keynote	John Naliboff, New Mexico Tech and Liang Xue, Syracuse U	Feedbacks Between Coupled Surface Processes and Lithospheric Deformation during Multi-phase Continental Rifting
10:40 AM	Break		
11:00AM - 12:30PM	Breakout 1 (C120)	Moira Zellner, Northeastern U & Katherine Anarde, NCSU	CSDMS meet and greet - get to know your colleagues with Human Dimensions focus
12:30PM - 1:30PM	Lunch		
1:30PM - 3:30PM	Clinic 1.1 (Rm TBD)	John Naliboff, New Mexico Tech	Coupling Models of Lithospheric Deformation and Surface Processes with the Advanced Solver for Planetary Evolution, Convection and Tectonics (ASPECT) Part 1
	Clinic 1.2 (Rm TBD)	Dan Shapero, U Washington	Simulating Glacier Flow with ICEPACK
	Clinic 1.3 (Rm TBD)	Caitlin Haedrich, North Carolina State U	An Introduction to GRASS GIS and Tangible Landscape
	Clinic 1.4 (Rm TBD)	Allen Lee, Arizona State U	Get Lazy with LLMs
	Clinic 1.5 (Rm TBD)	Moira Zellner, Northeastern U	Fora.ai: Reshaping Collaboration for Climate and Social Impact
3:30PM	Break		
3:45PM - 3:55PM	E-Pubs Lightning Talk	TBD	TBD
3:55PM - 6:00PM	Poster Session A		

Early Career Mixer - 6:00PM to 8:00PM - Sanitas Brewing Co. (food and non-alcoholic beverages also available), 3550 Frontier Ave, Boulder, CO 80301 Sanitas is at the rear of the building (east side).

#### <u>Wednesday, May 14, 2025</u>

Time	Session	Presenter	Торіс
9:00 AM	Welcome	Moderator - TBD, CSDMS IF	Welcome
9:05 AM	<b>Plenary</b> Keynote (C120)	Kathe Todd-Brown, U Florida	Global Soil Carbon Potential - What if Everyone Is Right and Where Do We Go from Here?
9:25 AM	Plenary Keynote	Allison Reilly, U Maryland	Extending on the Burden of Sea-level Rise on the Built Environment Beyond Housing
9:45 AM	Plenary Keynote	Fredrick Kratzert, Google	Long Short-term Memory Networks for Rainfall-Runoff Modeling
10:05 AM	<b>Plenary</b> Student Keynote	TBD	TBD
10:20 AM	Break		
11:00AM - 12:30PM	Breakout 1 (Rm TBD )	Group Meetings	Terrestrial WG, Geodynamics, Hydrology and CZ FRGs
	Breakout 2 (Rm TBD )	Group Meetings	Marine and Coastal WGs, Chesapeake and Ecosystem Dynamics FRGs
12:30PM - 1:30PM	Lunch		
1:30PM - 3:30PM	Clinic 2.1 (Rm TBD)	John Naliboff, New Mexico Tech	<i>Coupling Models of Lithospheric Deformation and Surface Processes</i> <i>with the Advanced Solver for Planetary Evolution, Convection and</i> <i>Tectonics (ASPECT) Part 2</i>
	Clinic 2.2 (Rm TBD)	Fernando Perez, UC, Berkeley and Matt Fisher, Schmidt Center for Data Science and Environment	GeoJupyter
	Clinic 2.3 (Rm TBD)	Wolfgang Bangerth, Colorado State U	The Finite Element Method (FEM)
	Clinic 2.4 (Rm TBD)	Steve Railsback, California Polytech State U, Humboldt and Volker Grimm, UFZ, Helmholtz	Pattern-oriented Agent Based Modeling to Achieve Structural Realism and Testable Predictions
3:30PM	Break		
3:45PM - 6:00PM	Poster Session B		

Banquet 6:00PM to 8:30PM - SEEC Cafe and Patio, 4001 Discovery Drive, Boulder, CO 80303

## <u>Thursday, May 15, 2025</u>

Time	Session	Presenter	Торіс
9:00AM	Welcome	Moderator - TBD, CSDMS IF	Welcome and Poster Awards
9:10AM	<b>Plenary</b> Keynote (C120)	Jaap Nienhuis, University of Utrecht	Two Worlds on a Single Planet: Long-term Coastal Geomorphological Data Versus Models
9:30AM	Plenary Keynote	Yalan Song, Penn State U	High-resolution Differentiable Models for Operational National and Global Water Modeling Assessment
9:50AM	Plenary Keynote	Andy Wickert, U Minnesota	TBD
10:10AM	<b>Plenary</b> Student Keynote	TBD	TBD
10:25AM	Break		
11:00AM - 12:30PM	ESPIn/OES Visiting Scholar Presentations (Rm C120)	Moderator, Irina Overeem, CSDMS IF	Student Project Presentations
12:30PM	Lunch		
1:30PM - 3:30PM	Clinic 3.1 (Rm TBD)	Allison Pfeiffer, Western Washington U	Landlab's NetworkSedimentTransporter: A Lagrangian Model for River Bed Material Transport Dynamics
	Clinic 3.2 (Rm TBD)	Irina Overeem, U Colorado, Boulder, CIF	Accelerating Glacier and Surface Processes Modeling with Machine Learning and New Python Libraries
	Clinic 3.3 (Rm TBD)	Andrew Moodie, Texas A&M U	Using the Collaborative Sandpiper Toolchain to Support Interoperability in Geomorphology Research
	Clinic 3.4 (Rm TBD)	Mohamed Said, Villanova U	Integrating CNN with LSTM Models for Capturing Spatiotemporal Dynamics of Flood Modeling
3:30PM	Break		
3:45PM - 4:45PM	TBD (C120)	TBD	TBD
4:45PM - 5:00PM	Closing Remarks and Adjourn	Greg Tucker, Executive Director, CSDMS IF	Farewell and information about 2026 Annual Meeting at University of Minnesota, Minneapolis, MN

#### Friday, May 16- meeting by invitation

9:00AM-11:00AM	Location: Rm TBD	CSDMS Executive Committee Meeting	(by invitation only - lunch will be served 11AM-12PM)
12:00PM - 2:00PM	Location: Rm TBD	CSDMS Steering Committee Meeting	(by invitation only - lunch will be served 11AM-12PM)