Tuesday, May 13, 2025

Time	Session	Presenter	Торіс
9:00AM	Welcome and 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)	Gaia Stucky de Quay, MIT	Global Flood Volumes on Mars: Insights into a Persisting Water Cycle
9:40 AM	Plenary Keynote	Manzhu Yu, Penn State U	Spatiotemporal Methodologies for the Analysis and Prediction of Extreme Weather Events
10:00 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
10:20 AM	Plenary Student Keynote	Marie-Christin Wimmler, Technische U, Dresden	TBD
10:35 AM	Break		
11:00AM - 12:30PM	ESPIn/OES Visiting Scholar Presentations (Rm C120)	Moderator: Irina Overeem, CU, Boulder,	ESPIn and OpenEarthscape student project presentations
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	Plenary 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	Plenary Student Keynote	Volker Grimm, UFZ, Helmholtz	The Open Modeling Foundation: Operationalizing FAIR Principles
10:25 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	From Exploration to Publication: Geospatial Research in the Jupyter Ecosystem
	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	Plenary 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	Plenary Student Keynote	Ari Koeppel, Dartmouth College	TBD
10:25AM	Break		
11:00AM - 12:30PM	Human Dimensions WG	Moira Zellner, Northeastern U & Katherine Anarde, NCSU	TBD
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 and Eric Barefoot, UC, Riverside	Using the Collaborative Sandpiper Toolchain to Support Interoperability in Geomorphology Research
	Clinic 3.4 (Rm TBD)	Mohamed Fathi Said, Florida Gulf Coast University	Integrating CNN with LSTM Models for Capturing Spatiotemporal Dynamics of Flood Modeling
3:30PM	Break		
3:45PM - 4:45PM	TBD (C120)	Science Collider	Networking around research topics TBD - Pizza served
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)