

**CSDMS 2025 Annual Meeting - “CSDMS 2025: Exploring Earth’s Surface with Models, Data and AI” May 13-15, 2025**  
**University of Colorado, Boulder, SEEC Building, 4001 Discovery Drive, Boulder, CO 80303**  
**\*\*\*\*All times provided in Mountain Daylight Time**

**Tuesday, May 13, 2025**

<b>Time</b>	<b>Session</b>	<b>Presenter</b>	<b>Topic</b>
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	<b>Plenary</b> Keynote (C120)	Gaia Stucky de Quay, MIT	<i>Global Flood Volumes on Mars: Insights into a Persisting Water Cycle</i>
9:40 AM	<b>Plenary</b> Keynote	Manzhu Yu, Penn State U	<i>Spatiotemporal Methodologies for the Analysis and Prediction of Extreme Weather Events</i>
10:00 AM	<b>Plenary</b> Keynote	John Naliboff, New Mexico Tech and Liang Xue, Syracuse U	<i>Feedbacks Between Coupled Surface Processes and Lithospheric Deformation during Multi-phase Continental Rifting</i>
10:20 AM	<b>Plenary</b> Student Keynote	Marie-Christin Wimmmler, Technische U, Dresden	<i>TBD</i>
10:35 AM	<b>Break</b>		
11:00AM - 12:30PM	ESPin/OES Visiting Scholar Presentations (Rm C120)	Moderator: Irina Overeem, CU, Boulder,	<i>ESPin and OpenEarthscope student project presentations</i>
12:30PM - 1:30PM	<b>Lunch Break</b>		
1:30PM - 3:30PM	Clinic 1.1 (Rm TBD)	John Naliboff, New Mexico Tech	<i>Coupling Models of Lithospheric Deformation and Surface Processes with the Advanced Solver for Planetary Evolution, Convection and Tectonics (ASPECT) Part 1</i>
	Clinic 1.2 (Rm TBD)	Dan Shapero, U Washington	<i>Simulating Glacier Flow with ICEPACK</i>
	Clinic 1.3 (Rm TBD)	Caitlin Haedrich, North Carolina State U	<i>An Introduction to GRASS GIS and Tangible Landscape</i>
	Clinic 1.4 (Rm TBD)	Allen Lee, Arizona State U	<i>Get Lazy with LLMs</i>
	Clinic 1.5 (Rm TBD)	Moira Zellner, Northeastern U	<i>Fora.ai: Reshaping Collaboration for Climate and Social Impact</i>
3:30PM	<b>Break</b>		
3:45PM - 3:55PM	E-Pubs Lightning Talk	TBD	<i>TBD</i>
3:55PM - 6:00PM	Poster Session A		

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**Wednesday, May 14, 2025**

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

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**Thursday, May 15, 2025**

<b>Time</b>	<b>Session</b>	<b>Presenter</b>	<b>Topic</b>
9:00AM	Welcome	Moderator - TBD, CSDMS IF	Welcome and Poster Awards
9:10AM	<b>Plenary</b> Keynote (C120)	Jaap Nienhuis, University of Utrecht	<i>Two Worlds on a Single Planet: Long-term Coastal Geomorphological Data Versus Models</i>
9:30AM	<b>Plenary</b> Keynote	Yalan Song, Penn State U	<i>High-resolution Differentiable Models for Operational National and Global Water Modeling Assessment</i>
9:50AM	<b>Plenary</b> Keynote	Andy Wickert, U Minnesota	<i>TBD</i>
10:10AM	<b>Plenary</b> Student Keynote	Ari Koeppel, Dartmouth College	<i>TBD</i>
10:25AM	<b>Break</b>		
11:00AM - 12:30PM	Human Dimensions WG	Moira Zellner, Northeastern U & Katherine Anarde, NCSU	<i>TBD</i>
12:30PM	<b>Lunch Break</b>		
1:30PM - 3:30PM	Clinic 3.1 (Rm TBD)	Allison Pfeiffer, Western Washington U	<i>Landlab’s NetworkSedimentTransporter: A Lagrangian Model for River Bed Material Transport Dynamics</i>
	Clinic 3.2 (Rm TBD)	Irina Overeem, U Colorado, Boulder, CIF	<i>Accelerating Glacier and Surface Processes Modeling with Machine Learning and New Python Libraries</i>
	Clinic 3.3 (Rm TBD)	Andrew Moodie, Texas A&M U and Eric Barefoot, UC, Riverside	<i>Using the Collaborative Sandpiper Toolchain to Support Interoperability in Geomorphology Research</i>
	Clinic 3.4 (Rm TBD)	Mohamed Fathi Said, Florida Gulf Coast University	<i>Integrating CNN with LSTM Models for Capturing Spatiotemporal Dynamics of Flood Modeling</i>
3:30PM	<b>Break</b>		
3:45PM - 4:45PM	TBD (C120)	Science Collider	<i>Networking around research topics TBD</i>
4:45PM - 5:00PM	Closing Remarks and Adjourn	Greg Tucker, Executive Director, CSDMS IF	<i>Farewell and information about 2026 Annual Meeting at University of Minnesota, Minneapolis, MN</i>

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*Friday, May 16- meeting by invitation*

9:00AM-11:00AM	Location: Rm TBD	CSDMS Executive Committee Meeting	by invitation only
12:00PM - 2:00PM	Location: Rm TBD	CSDMS Steering Committee Meeting	by invitation only