****All times provided in Mountain Daylight Time

Monday, May 17, 2021 - Joining link: https://cuboulder.zoom.us/j/92397228064

Time	What	Presenter	Topic
		Brad Murray, Duke U & Greg Tucker,	
3:00PM	Opening Town Hall	CSDMS Exec. Director	CSDMS Updates and Community's Future Needs
4:00 PM	Awards Ceremony	Greg Tucker, CSDMS Exec. Director	Lifetime Achievement and Syvitski Student Modeler Awards
			https://www.wonder.me/r?id=2ea8181c-7fd0-4395-bf18-1e5355d
5:00PM	Social Hour	via Wonder	<u>e4775</u>

Tuesday, May 18, 2021 - Joining link: https://cuboulder.zoom.us/j/92397228064

Time	What	Presenter	Topic
9:00AM	Welcome	Greg Tucker, CSDMS Exec. Director	Welcome and Introduction
9:05 AM	Plenary Keynote	Jacky Austermann, Lamont-Doherty Earth Observatory	Integrating Numerical Models with Co-production to Understand Sea Level Change and Its Impact Around Greenland
9:25AM	Plenary Keynote	Aleja Ortiz, Colby College	Atolls & Ecogeomorphology: Investigating Feedbacks Between Physical, Anthropogenic, & Ecological Processes under Changing Climates via Remote Sensing, Computational Modeling, & Fieldwork
9:45AM	Plenary Keynote	Tristan Salles, University of Sydney	A geomorphic perspective on Quaternary biogeographic connectivities across South East Asia
10:05AM	Plenary Keynote	Allison Pfeiffer, Western Washington University	Modeling Bed Material Abrasion at the Basin Scale: Why the Classic Approach Fails Us
10:25AM	Plenary Keynote	Arye Janoff, U.S. House of Rep Transportation & Infrastructure Subcom.	From Coastal Retreat to Seaward Growth: Emergent Behaviors from Paired Community Beach Nourishment Choices
10:45AM	Break		
11:00AM - 1:00PM	Clinic 1.1 (Breakout Room 1)	Allen Lee, CoMSES Net and Mark Piper, CSDMS IF	Git Good with FAIR Enough Practices for Scientific Software Development
	Clinic 1.2 (Breakout Room 2)	Nicole Gasparini, Tulane University	Do the Work: Building a more Equitable Research Unit
	Clinic 1.3 (Breakout Room 3)	Doug Edmonds, University of Indiana and Sam Roy, Planet Labs	An Introduction to using Google Earth Engine
	Clinic 1.4 (Breakout Room 4)	Scott Peckham, University of Colorado, Boulder	Component-based Hydrologic Modeling: Getting Started with the TopoFlow 3.6 Python Package
	Clinic 1.5 (Breakout Room 5)	Chris Jenkins, University of Colorado, Boulder, AI/ML Initiative	Training Datasets for Modeling with AI across the Deep-Ocean Seafloor
1:00PM	Break		
1:30PM - 3:00PM	GroupMeeting/Poster Previews (Breakout Room 6)	Coastal and Marine Working Groups, Ecosystem Dynamics, Chesapeake,	Poster Previews Byongsuk Chun - Modeling the Lafourche Delta network in the Mississippi Delta Complex

		Carbonates and Biogenics Focus Research Groups	Michael Itzkin - Modeling interannual dune growth and recovery on a developed barrier island Giulio Mariotti - Self-organization of coastal barrier systems during the Holocene Derrick Vaughn - Global incised valley filling during the Holocene sea-level highstand - implications for carbon burial Lawrence Vulis - Climate and process signatures on lake and wetland patterns in arctic river deltas Kim de Mutsert - End-to-End Modeling Reveals Species-Specific Effects of Large-Scale Coastal Restoration on Living Resources Facing Climate Change
	GroupMeeting/Poster Previews (Breakout Room 7)	Terrestrial and Cyber Working Groups	Poster Previews Rachel Glade - Arctic soil patterns analogous to fluid instabilities Risa Madoff - Variations of Regional Erosion Rates Since LGM Mapped Through Time and Space Manish Pandey - Landscape Evolution of a megafan at the foothill of the Vindhyan ranges in Ganga Foreland Basin Ethan Pierce - Modeling the controls on till equilibrium line position beneath a synthetic outlet glacier Sarah Schanz - Coupling glacial and fluvial erosion models to simulate sediment dynamics
3:00PM	Break		
3:30PM - 5:30PM	Extended Poster Session	All Day 1 Poster Preview Presenters	Breakout Room 8: Byongsuk Chun - Modeling the Lafourche Delta network in the Mississippi Delta Complex Breakout Room 9: Michael Itzkin - Modeling interannual dune growth and recovery on a developed barrier island Breakout Room 10: Giulio Mariotti - Self-organization of coastal barrier systems during the Holocene Breakout Room 11: Derrick Vaughn - Global incised valley filling during the Holocene sea-level highstand - implications for carbon burial

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	Breakout Room 12: Lawrence Vulis - Climate and process
	signatures on lake and wetland patterns in arctic river deltas
	Breakout Room 13: Kim de Mutsert - End-to-End Modeling Reveals Species-Specific Effects of Large-Scale Coastal Restoration on Living Resources Facing Climate Change
	Breakout Room 14: Rachel Glade - Arctic soil patterns analogous to fluid instabilities
	Breakout Room 15: Risa Madoff - Variations of Regional Erosion Rates Since LGM Mapped Through Time and Space
	Breakout Room 16: Manish Pandey - Landscape Evolution of a megafan at the foothill of the Vindhyan ranges in Ganga Foreland Basin
	Breakout Room 17: Ethan Pierce - Modeling the controls on till equilibrium line position beneath a synthetic outlet glacier
	Breakout Room 18: Sarah Schanz - Coupling glacial and fluvial erosion models to simulate sediment dynamics

Wednesday, May 19, 2021 - Joining link: https://cuboulder.zoom.us/j/92397228064

Time	What	Presenter	Topic
9:00AM	Welcome	Albert Kettner, CSDMS IF	Welcome and Introduction
9:05 AM	Plenary Keynote	Fred Ogden, NOAA-NWS Office of Water Prediction	Next Generation Water Resources Modeling Framework: Opportunities for Community Involvement
9:25AM	Plenary Keynote	Talea Mayo, Emory University	Climate Change Impacts on Hurricane Storm Surge Risk
			Good Decisions Without Good Predictions: Decision Making Under Deep
9:45AM	Plenary Keynote	Rob Lempert, RAND Corp.	Uncertainty
		Sondoss El Sawah, University of	
10:05AM	Plenary Keynote	New South Wales, Canberra	Eight Grand Challenges in Socio-environmental Systems Modelling
10:25AM	Break		
	Clinic 2.1 (Breakout	Wei Wu, University of Southern	Introduction to R Programming and R Applications in Landscape
11:00AM - 1:00PM	Room 1)	Mississippi	Ecology

	Clinic 2.2 (Breakout Room 2) Clinic 2.3 (Breakout Room 3) Clinic 2.4 (Breakout Room 4) Clinic 2.5 (Breakout	Rebecca Batchelor, CIRES, CU, Boulder, Anne Gold, CU, Boulder, Diana Acero-Allard, GeoLatinas Moira Zellner, Northeastern University & Rob Lempert, RAND Corp. Tian Gan and Eric Hutton, CSDMS IF Benoit Bovy, GFZ/Independent	Inclusive Mentoring Decision Framing CSDMS@HydroShare: find, access, operate and couple data-model integration tools for reproducible research Building Interactive Dashboards for Earth Surface Processes Modeling
	Room 5)	Software Engineer	with Python and Jupyter
1:00PM 1:30PM - 3:00PM	Break GroupMeeting/Poster Previews (Breakout Room 6)	Hydrology, Critical Zone and Ecosystem Dynamics Focus Research Groups	Poster Previews Rachel Bosch - DKARST.py: modeling abrasional wear of scalloped bedrock in caves Matt Rossi - Coupling an Agent-Based Model of forest dynamics and soil production to sediment transport models in Landlab Alex Lipp - Predicting Fluvial Sediment Geochemistry: Forward and Inverse Approaches Sarah Lundell - Skill of a debris flow model at different temporal resolutions in the Matilija Creek watershed Sagy Cohen - Bedload flux modeling in large global rivers: controlling parameters and model sensitivity
	GroupMeeting/Poster Previews (Breakout Room 7)	Marine and Coastal Working Groups	Poster Previews Travis Clow - Is it accelerating? Long term coastal cliff retreat in Del Mar, CA revealed from shore platform 10Be concentrations and numerical modeling Norjmaa Khosbaatar - The role of organic sediment dynamics on paleo-sea level reconstruction from fluvio-deltaic stratigraphy: Insights from a geometric model Bentley Meyer - Analyzing motu morphometrics on coral atolls in the context of local wave climate Jaap Nienhuis - Seasonality of wave, tide, and river-driven sediment fluxes and its impact on delta morphology Andrew Moodie - Does faulting-induced subsidence drive distributary network reorganization? Charles Shobe - Inversion of marine stratigraphy for optimal seascape evolution model structure and parameters

			Thomas Chen - Modeling sea ice motion using various artificial intelligence approaches
	GroupMeeting/Poster Previews (Breakout Room 8)	Terrestrial and EKT Working Groups, Geodynamics Focus Research Group	Poster Previews Nicolas Whiteman - Smoothed Particle Hydrodynamics at the coastal interface of Earth, ocean, and ice Phaedra Upton - Evolution of complex 4D plate boundary transition zone in central New Zealand illuminated by its topographic fabric
	GroupMeeting/Poster Previews (Breakout Room 9)	Human Dimensions Focus Research Group	Poster Previews Joel Johnson - Mapping Localized subsidence of Lagos, Nigeria with Sentinel-1A/B Satellite Coverage Kelsea Best - Pattern-oriented modeling to test frameworks of environmental migration decisions in Bangladesh Kelly Monteleone - Underwater Archaeological Surveys in Shakan Bay, SE Alaska
3:00PM	Break		
3:30PM - 5:30PM	Extended Posters Session	All Day 2 Poster Preview Presenters	Breakout Room 10: Rachel Bosch - DKARST.py: modeling abrasional wear of scalloped bedrock in caves Breakout Room 19: Matt Rossi - Coupling an Agent-Based Model of forest dynamics and soil production to sediment transport models in Landlab Breakout Room 20: Alex Lipp - Predicting Fluvial Sediment Geochemistry: Forward and Inverse Approaches Breakout Room 23: Sarah Lundell - Skill of a debris flow model at different temporal resolutions in the Matilija Creek watershed Breakout Room 24: Sagy Cohen - Bedload flux modeling in large global rivers: controlling parameters and model sensitivity Breakout Room 11: Travis Clow - Is it accelerating? Long term coastal cliff retreat in Del Mar, CA revealed from shore platform 10Be concentrations and numerical modeling

	Breakout Room 12: Norjmaa Khosbaatar - The role of organic sediment dynamics on paleo-sea level reconstruction from fluvio-deltaic stratigraphy: Insights from a geometric model
	Breakout Room 13: Bentley Meyer - Analyzing motu morphometrics on coral atolls in the context of local wave climate
	Breakout Room 14: Jaap Nienhuis - Seasonality of wave, tide, and river-driven sediment fluxes and its impact on delta morphology
	Breakout Room 17: Andrew Moodie - <i>Does faulting-induced subsidence</i> drive distributary network reorganization?
	Breakout Room 18: Charles Shobe - Inversion of marine stratigraphy for optimal seascape evolution model structure and parameters
	Breakout Room 25: Thomas Chen - Modeling sea ice motion using various artificial intelligence approaches
	Breakout Room 15: Nicolas Whiteman - Smoothed Particle Hydrodynamics at the coastal interface of Earth, ocean, and ice
	Breakout Room 21: Phaedra Upton - Evolution of complex 4D plate boundary transition zone in central New Zealand illuminated by its topographic fabric
	Breakout Room 16: Joel Johnson - Mapping Localized subsidence of Lagos, Nigeria with Sentinel-1A/B Satellite Coverage
	Breakout Room 22: Kelsea Best - Pattern-oriented modeling to test frameworks of environmental migration decisions in Bangladesh
	Breakout Room 26: Kelly Monteleone - <i>Underwater Archaeological</i> Surveys in Shakan Bay, SE Alaska

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Thursday, May 20, 2021 - Joining link: https://cuboulder.zoom.us/j/92397228064

Time	What	Presenter	Topic
8:00AM	Social/Coffee Hour	via Wonder: <u>https://www.wonder.me/r?id=2ea818</u> <u>1c-7fd0-4395-bf18-1e5355de4775</u>	Open social hour
9:00AM	Welcome	Irina Overeem, CSDMS Deputy Director	Welcome and Introduction
9:05 AM	Plenary Keynote	Fernando Perez, University of California, Berkeley	Jupyter Technology
9:25AM	Plenary Keynote	Kerry Callaghan, LDEO, Columbia University	Coupled Groundwater and Dynamic Lake Modeling using the Water-Table Model (WTM)
9:45AM	Plenary Keynote	Paola Passalacqua, The University of Texas, Austin	Grid or Subgrid? Analysis of River systems under Change at the Intersection of Modeling and High Resolution Data Analysis
10:05AM	Plenary Keynote	Fedor Baart, Deltares	Models in Virtual Environments and Digital Twins Modeling Transient Ecosystem Response to Climate Variability
10:25AM	Plenary Keynote	Sai S. Nudurupati, RMA Inc.	since the Late Pleistocene using Landlab
10:45AM	Break	Designation Community and Community	Laddy and the Hard London Fredrick Mad P. 201
11:00AM - 1:00PM	Clinic 3.1 (Breakout Room 1)	Benjamin Campforts and Greg Tucker, CSDMS, IF	Looking under the Hood: Landscape Evolution Modeling with TerrainBento and Landlab
	Clinic 3.2 (Breakout Room 2)	Jon Schwenk, Los Alamos National Lab	Exploring river and delta channel networks with RivGraph
	Clinic 3.3 (Breakout Room 3)	Fedor Baart, Deltares	Digital Twins in Earth Sciences
	Clinic 3.4 (Breakout Room 4)	Chris Vernon, Pacific Northwest National Laboratory	GCAM and Demeter: A Global, Integrated Human-Earth Systems Perspective to Modeling Land Projections
	Clinic 3.5 (Breakout Room 5)	Heidi Roop, University of Minnesota	Communication & Engagement: Tips, Tricks, Traps and Opportunities
1:00PM	Break		
1:30PM - 3:00PM	Science Jam	via Wonder: https://www.wonder.me/r?id=2ea818 1c-7fd0-4395-bf18-1e5355de4775	Please contact csdms@colorado.edu to request an additional topic area to be added. Topic Areas: Bridging modeling in academic/research & applied worlds Modeling the Cryosphere & Earth Surface Processes Coastlines, Models, and People Stratigraphic Modeling

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Friday, May 21- Meetings by invitation only

9:00-11:00AM	Location: Via Zoom Link	Steering Committee Meeting	