

Personalized Itinerary Planner

AGU-FM13
December 07 - 13, 2013

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Saturday, December 07, 2013

You have nothing scheduled for this day

Sunday, December 08, 2013

You have nothing scheduled for this day

Monday, December 09, 2013

Time	Session Info
8:00 AM-12:20 PM, Hall A-C (Moscone South), A11C. Emissions and Impacts of Short-lived Climate Forcers I Posters (cosponsored by AMS)	
8:00-8:00 AM	A11C-0059. Evolution of biomass burning aerosol over the Amazon: airborne measurements of aerosol chemical composition, microphysical properties, mixing state and optical properties during SAMBBA <u>W. Morgan</u> ; J.D. Allan; M. Flynn; E. Darbyshire; A. Hodgson; D. Liu; S. O'Shea; S. Bauguitte; K. Szpek; B. Johnson; J. Haywood; K. Longo; P. Artaxo; H. Coe
8:00 AM-12:20 PM, Hall A-C (Moscone South), B11A. Biogeodynamics and Earth System Sciences I Posters	
8:00-8:00 AM	B11A-0367. The Secret Gardener: Vegetation and the Emergence of Bio-geomorphic Patterns in Tidal Environments <u>M. Marani</u> ; C. Da Lio; A. D'Alpaos
8:00 AM-12:20 PM, Hall A-C (Moscone South), B11C. Linking Geomorphology to Biogeochemistry and Nutrient Cycles I Posters [SWIRL_GS]	
8:00-8:00 AM	B11C-0391. Geomorphic controls on mineral weathering, elemental transport, and production of mineral surface area in a schist bedrock weathering profile, Piedmont Pennsylvania <u>B. Wenell</u> ; K. Yoo; A.K. Aufdenkampe; J.B. Mahoney; L. Lepak
8:00 AM-12:20 PM, Hall A-C (Moscone South), C11A. Himalayan Glacier Dynamics I Posters	
8:00-8:00 AM	C11A-0647. Glacier sensitivity to climate change in the Nepalese Himalaya quantified using higher-order modelling <u>A.V. Rowan</u> ; D.L. Egholm; N.F. Glasser; D.J. Quincey
8:00 AM-12:20 PM, Hall A-C (Moscone South), H11E. Innovation in Hydrology Through the Design, Development, and Use of Community Technologies and Resources Posters	
8:00-8:00 AM	H11E-1195. Modeling of hydrological and hydraulics problems using OpenFOAM® platform: From physics to mathematical models to computer codes (Invited) <u>X. Liu</u>

8:00-8:00 AM	H11E-1204. A New Open Data Open Modeling Framework for the Geosciences Community (<i>Invited</i>) <u>X. Liang</u> ; D. Salas; M. Navarro; Y. Liang; W.L. Teng; R.P. Hooper; P.J. Restrepo; J.D. Bales
8:00-8:00 AM	H11E-1206. HydroDesktop as a Community Designed and Developed Resource for Hydrologic Data Discovery and Analysis <u>D.P. Ames</u>
8:00 AM-12:20 PM, Hall A-C (Moscone South), H11F. Managed Aquifer Recharge: Challenges, Approaches, and Applications Posters	
8:00-8:00 AM	H11F-1212. Heat Tracing Percolation in Managed Aquifer Recharge Facilities using Fiber Optic Distributed Temperature Sensing <u>M. Becker</u> ; W. Ellis; B. Bauer; A. Hutchinson
8:00 AM-12:20 PM, Hall A-C (Moscone South), H11H. Regional Groundwater Systems: Advances in Modeling, Characterization, and Applications I Posters	
8:00-8:00 AM	H11H-1245. Evaluation of groundwater resources of the Chesapeake Bay Watershed using an integrated hydrologic model <u>A. Seck</u> ; C. Welty; R.M. Maxwell
8:00 AM-12:20 PM, Hall A-C (Moscone South), H11I. Saturated and Unsaturated Flow in Structurally Variable Pathways Posters [SWIRL_GS]	
8:00-8:00 AM	H11I-1256. Flow paths inside a hillslope (<i>Invited</i>) <u>W.E. Dietrich</u> ; D.M. Rempe; J. Oshun; R. Salve
8:00 AM-12:20 PM, Hall A-C (Moscone South), IN11A. Information Model Driven Architectural Components for Science Data Repositories and Archives Posters	
8:00-8:00 AM	IN11A-1510. HydroShare: An online, collaborative environment for the sharing of hydrologic data and models (<i>Invited</i>) <u>D.G. Tarboton</u> ; R. Idaszak; J.S. Horsburgh; D. Ames; J.L. Goodall; L.E. Band; V. Merwade; A. Couch; J. Arrigo; R.P. Hooper; D.W. Valentine; D.R. Maidment
8:00 AM-12:20 PM, Hall A-C (Moscone South), IN11B. Near Real Time Data for Earth Science and Space Weather Applications I Posters	
8:00-8:00 AM	IN11B-1534. A Statewide Private Microwave Wide Area Network for Real-time Natural Hazard Monitoring <u>M.C. Williams</u> ; G. Kent; K.D. Smith; G. Plank; D. Slater; J. Torrisi; R. Presser; K. Straley
8:00 AM-12:20 PM, Hall A-C (Moscone South), NG11A. Statistical Geophysics: Natural Hazards and Fracking I Posters [SWIRL_CM.CU]	
8:00-8:00 AM	NG11A-1579. Scaling of peak flows in large European river basins: new results on meteorological and channel network controls <u>S. Zanardo</u> ; L. Nicotina; A.G. Hilberts
8:00 AM-12:20 PM, Hall A-C (Moscone South), PP11A. Paleoclimatology and Paleogeography General Contributions I Posters	

8:00-8:00 AM	PP11A-1804. Out of Africa: the importance of rivers as human migration corridors <u>J.A. Ramirez</u> ; T.J. Coulthard; M. Rogerson; N. Barton; T. Bruecher
8:00 AM-10:00 AM, 3014 (Moscone West), C11C. Remote Sensing of the Cryosphere I: Surface Mass Balance	
8:30-8:45 AM	C11C-03. Sub-meter Commercial Imagery Coverage for the Earth's Polar Regions <u>P.J. Morin</u> ; K. Peterman
8:00 AM-10:00 AM, 3001 (Moscone West), GC11F. Translating Science into Action: Innovative Services for the Geo- and Environmental- Sciences in the Era of Big Data I	
9:15-9:30 AM	GC11F-06. Precipitation Downscaling Products for Hydrologic Applications (Invited) <u>E.D. Gutmann</u> ; T. Pruitt; C. Liu; M.P. Clark; L.D. Brekke; J. Arnold; D.A. Raff; R. Rasmussen
8:00 AM-10:00 AM, 2003 (Moscone West), EP11A. Thresholds in Soil Response to Global Change I [SWIRL_GS]	
9:30-9:45 AM	EP11A-07. Climate warming and eco-hydrology of forested watersheds in the California Sierra (Invited) <u>C. Tague</u> ; K. Son; T. Brandt; A.L. Dugger
8:00 AM-10:00 AM, 309 (Moscone South), ED11F. Preparation for the Geoscience Workforce: Programs and Projects That Increase Students' Employability I	
9:45-10:00 AM <u>(Conflict)</u>	ED11F-08. Preparing the Next Generation of Earth Scientists: An Examination of 25 Federal Earth Science Education Programs A.M. Linn; A. Goldstein; <u>C.A. Manduca</u> ; E.J. Pyle; P.M. Asher; L.D. White; E.M. Riggs; S. Cozzens; D. Glickson
8:00 AM-10:00 AM, 3018 (Moscone West), H11O. Water, Energy and Society in Urban Systems I [SWIRL_US]	
9:45-10:00 AM <u>(Conflict)</u>	H11O-08. Evaluation of the impacts of urban development on groundwater storage at the regional scale <u>A.S. Bhaskar</u> ; C. Welty; R.M. Maxwell; A.J. Miller
10:20 AM-12:20 PM, 3020 (Moscone West), H12A. Advances in Hydrometeorological Predictions and Applications II	
10:20-10:35 AM	H12A-01. CONDITIONAL MONTHLY WEATHER RESAMPLING PROCEDURE FOR OPERATIONAL SEASONAL WATER RESOURCES FORECASTING J. Beckers; A. Weerts; E. Tjrdeman; <u>E. Welles</u> ; A. McManamon
10:20 AM-12:20 PM, 3001 (Moscone West), GC12B. Climate Change Adaptation and Mitigation I [SWIRL_CS]	

10:35-10:50 AM (Conflict)	GC12B-02. Future Extreme Heat Scenarios to Enable the Assessment of Climate Impacts on Public Health over the Coterminous U.S. D.A. Quattrochi ; W.L. Crosson; M.Z. Al-Hamdan; M.G. Estes Jr
10:20 AM-12:20 PM, 3022 (Moscone West), H12B. Advances in Understanding Land-Atmosphere Interactions II [SWIRL_GS]	
10:40-11:00 AM (Conflict)	H12B-02. Assessing latent heat flux estimates from the Community Land Model using GRACE and FLUXNET-MTE data. S.C. Swenson ; D.M. Lawrence
10:20 AM-12:20 PM, 2020 (Moscone West), IN12A. Data Curation, Credibility, Preservation Implementation, and Data Rescue to Enable Multi-source Science II	
10:50-11:05 AM (Conflict)	IN12A-03. Rescue of Long-Tail Data from the Ocean Bottom to the Moon L. Hsu ; K.A. Lehnert; S.M. Carbotte; V. Ferrini; J.W. Delano; J.B. Gill; M. Tivey
10:20 AM-12:20 PM, 2011 (Moscone West), SA12A. GNSS/GPS Based Ionospheric Space Weather Monitoring I	
10:55-11:10 AM (Conflict)	SA12A-04. Day-to-day Monitoring of the Comparisons Between UHF Scintillation Forecasts and GNSS Observations D.N. Anderson ; Y. Morton; Y. Jiao; R.J. Redmon
10:20 AM-12:20 PM, 3008 (Moscone West), A12B. From Air Pollution to Climate Changes in Asia II [SWIRL_DA] (cosponsored by AMS)	
11:05-11:20 AM (Conflict)	A12B-04. Contributions of Asian SO2 Pollution to the Upper Troposphere and Lower Stratosphere R.R. Neely ; P. Yu; K.H. Rosenlof; O.B. Toon; J.S. Daniel; S. Solomon; H.L. Miller
10:20 AM-12:20 PM, 2006 (Moscone West), B12C. Emerging Frontiers in Biogeosciences II	
11:05-11:20 AM (Conflict)	B12C-04. Impact of diffuse mortality in a terrestrial biosphere model: stress, succession, and disease (Invited) M. Dietze
10:20 AM-12:20 PM, 3020 (Moscone West), H12A. Advances in Hydrometeorological Predictions and Applications II	
11:50-12:05 PM (Conflict)	H12A-07. Integrated hydrometeorological predictions with the fully-coupled WRF-Hydro modeling system in western North America D.J. Gochis ; W. Yu
10:20 AM-12:20 PM, 3014 (Moscone West), H12E. Nonpoint Source Fluxes in the Vadose Zone and Groundwater I	
11:50-12:05 PM (Conflict)	H12E-07. Transferrable Lessons about Non-Point-Source Gas Transport from the Amargosa Desert D.A. Stonestrom ; B.J. Andraski; R.J. Baker; S. Maples; M.A. Walvoord; C.T. Green; B. Thomas; W. Luo; M.B. Young; R.L. Michel

1:40 PM-6:00 PM, Hall A-C (Moscone South), A13F. Tropical and Midlatitude Convective Storm Systems and Their Roles in Weather and Climate III Posters (cosponsored by AMS)	
1:40-1:40 PM	A13F-0285. Potential Vorticity diagnosis of the binary interaction between Typhoon Tembin(2012, 14th) and Bolaven(2012, 15th) <u>J. Hwang</u> ; H. Cheong; J. LEE
1:40 PM-6:00 PM, Hall A-C (Moscone South), B13G. Soil Erosion, Transport and Deposition and Their Control Over Biogeochemical Cycling of Essential Elements I Posters	
1:40-1:40 PM	B13G-0605. Whole Watershed Quantification of Net Carbon Fluxes by Erosion and Deposition within the Christina River Basin Critical Zone Observatory <u>A.K. Aufdenkampe</u> ; D.L. Karwan; R.E. Aalto; J. Marquard; K. Yoo; B. Wenell; C. Chen
1:40 PM-6:00 PM, Hall A-C (Moscone South), ED13B. Climate Literacy: Beyond Climate Literacy — Toward Effective Responses to Global Change III Posters	
1:40-1:40 PM	ED13B-0779. 'EXPERIMENTING WITH A SMALL PLANET' AS AN EXPERIMENT <u>W.W. Hay</u>
1:40 PM-6:00 PM, Hall A-C (Moscone South), ED13C. Preparation for the Geoscience Workforce: Curriculum, Department, and Program Reform Strategies III Posters	
1:40-1:40 PM	ED13C-0784. Geoscience and the 21st Century Workforce <u>C.A. Manduca</u> ; T.J. Bralower; D. Blockstein; C.M. Keane; K.B. Kirk; D. Schejbal; C.E. Wilson
1:40 PM-6:00 PM, Hall A-C (Moscone South), EP13A. Coastal Geomorphology and Morphodynamics I Posters	
1:40-1:40 PM	EP13A-0828. Connecting bathymetry, the flow field, and bathymetric evolution on the Wax Lake Delta, coastal Louisiana, USA <u>J.B. Shaw</u> ; D.C. Mohrig
1:40-1:40 PM	EP13A-0837. Feedbacks Between Wave Energy And Declining Coral Reef Structure: Implications For Coastal Morphodynamics <u>A.E. Grady</u> ; C.J. Jenkins; L.J. Moore; D.C. Potts; P.M. Burgess; C.D. Storlazzi; E. Elias; M.A. Reidenbach
1:40-1:40 PM	EP13A-0838. Short and long term evolution of deep giant submarine dunes in continental shelf environment: the example of the "Banc du Four" (Western Brittany, France) M. Franzetti; P. Le Roy; T. Garlan; <u>C. Delacourt</u> ; R. Thibaud; R. Cancouet; D. Graindorge; C. Prunier; A. Sukhovich; A. Deschamps
1:40-1:40 PM	EP13A-0848. Understanding the effects of bathymetry, wave climate, and coastline shape on wave energy delivery to rocky coastlines using machine learning <u>E.B. Goldstein</u> ; P.W. Limber; A. Murray; P.N. Adams

1:40-1:40 PM	EP13A-0852. The effects of breaking wave turbulence on suspended sand transport in the nearshore - a 3D numerical investigation Z. Zhou; <u>X. Liu</u> ; T. Hsu; J. Sangermano
1:40-1:40 PM	EP13A-0856. Exploring a morphodynamic modeling framework for reef island evolution under sea-level rise <u>J. Lorenzo Trueba</u> ; A.D. Ashton; J.P. Donnelly
1:40-1:40 PM	EP13A-0857. Impact of vegetation on the hydrodynamics and morphological changes of the Wax Lake Delta during hurricanes <u>F. Xing</u> ; A.J. Kettner; J.P. Syvitski; Q. Ye; A. Bevington; R. Twilley; J.H. Atkinson
1:40-1:40 PM	EP13A-0861. Generating synthetic wave climates for coastal modelling: a linear mixed modelling approach <u>C. Thomas</u> ; R.M. Lark
1:40 PM-6:00 PM, Hall A-C (Moscone South), EP13C. Thresholds in Soil Response to Global Change II Posters [SWIRL_GS]	
1:40-1:40 PM	EP13C-0881. Snowmelt and rain in a marginal snowpack watershed: Amount and duration of water input controls runoff <u>S.P. Anderson</u> ; N. Rock
1:40 PM-3:40 PM, 3003 (Moscone West), GC13E. Natural- and Human-Induced Changes in the Global Water Cycle from Observations and Model Simulations and Implications for Water Resources	
1:40-1:55 PM <u>(Conflict)</u>	GC13E-01. Impacts of Large-Scale Water Management on Terrestrial Hydrology and Climate (<i>Invited</i>) <u>J.S. Famiglietti</u>
1:40 PM-3:40 PM, 3007 (Moscone West), OS13D. Ice-Ocean-Seabed Interactions in Fjords II	
1:40-1:55 PM <u>(Conflict)</u>	OS13D-01. Evaluating competing forces constraining glacial grounding-line stability (<i>Invited</i>) <u>R.D. Powell</u>
1:40 PM-6:00 PM, Hall A-C (Moscone South), MR13A. Advances in Rock Physics and Rock Mechanics — From Faults to Reservoirs I Posters	
1:40-1:40 PM	MR13A-2224. Flow and Geometry Control the Onset of Jamming in Fractures with High Solid-Fraction Fluids <u>R. Medina</u> ; J.E. Elkhoury; L.J. Shannon; R.L. Detwiler; J. Morris; R. Prioul; J. Desroches
1:40 PM-6:00 PM, Hall A-C (Moscone South), T13D. Seismology, Active Tectonics and Geomorphology in South and East Asia II: Central and SE Asia Posters	
1:40-1:40 PM	T13D-2566. GPS Velocity Field in Bangladesh: Delta Subsidence, Seasonal Water Loading and Shortening Across the Burma Accretionary Prism and Shillong Massif. <u>M.S. Steckler</u> ; <u>D.R. Mondal</u> ; S.L. Nooner; S.H. Akhter; L. Seeber; S.V. Bettadpur; C. Sazedul Karim; M. Howe; F. Masson; T. Maurin; C. Rangin

1:40 PM-3:40 PM, 2006 (Moscone West), B13M. Model Intercomparisons: Syntheses That Inform Scientific Understanding II [SWIRL_CU]	
2:40-2:55 PM	B13M-05. Global net land carbon sink: Results from the Multi-scale Synthesis and Terrestrial Model Intercomparison Project (MstMIP) <u>D.N. Huntzinger</u> ; C.R. Schwalm; A.M. Michalak; R.B. Cook; A.R. Jacobson; K.M. Schaefer; A. Dasgupta; J. POCO
4:00 PM-6:00 PM, 307 (Moscone South), NH14A. Advances in Analysis and Prediction of Rock Falls, Rock Slides, and Rock Avalanches I	
4:00-4:15 PM	NH14A-01. Landslide dynamics from seismology and satellite remote sensing (<i>Invited</i>) <u>C.P. Stark</u> ; G. Ekstrom; C. Hibert; J. Allen
4:00 PM-6:00 PM, 3002 (Moscone West), PA14A. Hydraulic Fracturing: Knowns, Unknowns, and Communication to the Public I [SWIRL_CU] (Virtual Option)	
4:15-4:25 PM	PA14A-02. Water Resource Impacts During Unconventional Shale Gas Development: The Pennsylvania Experience <u>S.L. Brantley</u> ; D. Yoxtheimer; S. Arjmand; P. Grieve; R. Vidic; J.D. Abad; C.A. Simon; J. Pollak
4:00 PM-6:00 PM, 300 (Moscone South), ED14C. Games, Interactive Simulations, and Virtual Labs for Science Teaching and Learning II [SWIRL_CM]	
4:45-5:00 PM	ED14C-04. Web-based Interactive Landform Simulation Model - Grand Canyon <u>W. Luo</u> ; J.D. Pelletier; K. Duffin; C.J. Ormand; W. Hung; E.A. Iverson; D. Shernoff; X. Zhai; A. Chowdary
4:00 PM-6:00 PM, 2020 (Moscone West), IN14A. Near Real Time Data for Earth Science and Space Weather Applications III	
5:15-5:30 PM	IN14A-06. Assimilation of NASA MODIS Flood Mapping Product into Operational Flash Flood Warning Systems <u>A.J. Posner</u> ; K.P. Georgakakos; E. Shamir
4:00 PM-6:00 PM, 3001 (Moscone West), GC14B. Understanding and Assessing Natural and Societal Impacts of Decadal Climate Variability II	
5:30-5:45 PM <u>(Conflict)</u>	GC14B-07. The Florida Water and Climate Alliance: A Collaborative Working Group for the Development of Climate Predictions for Improved Water Management, Operations and Planning. (<i>Invited</i>) <u>W.D. Graham</u> ; S. Hwang; A. Adams
4:00 PM-6:00 PM, 307 (Moscone South), NH14A. Advances in Analysis and Prediction of Rock Falls, Rock Slides, and Rock Avalanches I	
5:30-5:45 PM <u>(Conflict)</u>	NH14A-07. Cosmogenic beryllium-10 exposure dating of probable earthquake-triggered rock avalanches in Yosemite Valley, California <u>J.A. Thompson</u> ; G.M. Stock; D. Rood; K.L. Frankel
6:15 PM-7:15 PM, 304 (Moscone South), TH15D. Critical Zone Science and Observatories	

6:15-6:15 PM	TH15D-01. Critical Zone Science and Observatories <u>S.L. Brantley</u> ; T.S. White; S.P. Anderson; R.C. Bales; J. Chorover; W.H. McDowell
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Tuesday, December 10, 2013

Time	Session Info
8:00 AM-12:20 PM, Hall A-C (Moscone South), A21C. From Air Pollution to Climate Changes in Asia Posters V [SWIRL_DA] (cosponsored by AMS)	
8:00-8:00 AM	A14B-03. High Black Carbon Concentrations and Atmospheric Pollution Around Indian Coal Fired Thermal Power Plants <u>R.P. Singh</u> ; A.K. Singh; S. Kumar; T. Takemura
8:00 AM-12:20 PM, Hall A-C (Moscone South), B21D. Vulnerability of Permafrost Carbon to Climate Change IV Posters [SWIRL_GS]	
8:00-8:00 AM	B21D-0513. Improved estimates of the permafrost carbon feedback <u>E.E. Jafarov</u> ; K.M. Schaefer; J. Watts; T. Zhang
8:00 AM-12:20 PM, Hall A-C (Moscone South), C21B. Improved Glacier Mass Balance Assessment and Projection: Methods and Modeling I Posters	
8:00-8:00 AM	C21B-0631. Improving global observation and assessment of glacier contributions to sea level rise (<i>Invited</i>) <u>W.T. Pfeffer</u>
8:00 AM-12:20 PM, Hall A-C (Moscone South), C21D. Remote Sensing of the Cryosphere IV Posters	
8:00-8:00 AM	C21D-0666. Surface Roughness Impact on the Sea Ice Thickness Measurements Based on LIDAR/Radar Altimetry <u>L. Li</u> ; D. Truesdale; P. Posey; R. Allard; J.M. Gardner; J.M. Brozena; J. Richter-Menge
8:00-8:00 AM	C21D-0673. Snow and Ice Climatology of the Western United States and Alaska from MODIS <u>K.E. Rittger</u> ; T.H. Painter; C.A. Mattmann; F.C. Seidel; A. Burgess; M. Brodzik
8:00-8:00 AM	C21D-0685. Influence of the sea-ice edge on the Arctic nearshore environment <u>K.R. Barnhart</u> ; I. Overeem; R.S. Anderson
8:00 AM-10:00 AM, 2003 (Moscone West), EP21A. Coastal Geomorphology and Morphodynamics: Beaches and Barrier Islands II	
8:00-8:15 AM	EP21A-01. Barriers on the Brink? Interactions Between Biological and Physical Processes Lead to Bistability and the Potential for Rapid Response to Gradually Changing Conditions (<i>Invited</i>) <u>L.J. Moore</u> ; O. Duran Vinent
8:00 AM-12:20 PM, Hall A-C (Moscone South), GC21B. Advances in Reservoir Modeling and Monitoring from Regional to Global Scales I Posters	

8:00-8:00 AM	GC21B-0831. Lake Storage Measurements For Water Resources Management: Combining Remotely Sensed Water Levels and Surface Areas <u>G.R. Brakenridge</u> ; C.M. Birkett
8:00 AM-12:20 PM, Hall A-C (Moscone South), GC21C. Climate Change and Wildfire: Drivers, Interactions and Consequences I Posters	
8:00-8:00 AM	GC21C-0847. Modeling wildfire and hydrologic response to global climate change using the Landlab modeling environment <u>J.M. Adams</u> ; N.M. Gasparini; G.E. Tucker; E. Istanbuluoglu; E. Hutton; D.E. Hogley; S. NUDURUPATI
8:00 AM-12:20 PM, Hall A-C (Moscone South), H21C. Advances in Understanding Land-Atmosphere Interactions Posters IV [SWIRL_GS]	
8:00-8:00 AM	H21C-1057. Ensemble Kalman Filter data assimilation for the TerrSysMP fully-coupled hydrologic – land surface – atmospheric modeling system <u>J.L. Williams</u> ; P. Shrestha; M. Sulis; C. Simmer
8:00 AM-12:20 PM, Hall A-C (Moscone South), H21D. Anomalous Transport: Experimental and Mathematical Studies Posters	
8:00-8:00 AM	H21D-1091. Anomalous Sediment Mixing by Bioturbation <u>K.R. Roche</u> ; A.F. Aubeneau; M. Xie; A.I. Packman
8:00 AM-12:20 PM, Hall A-C (Moscone South), H21H. Uncertainty in Water Management, Part I: Uncertainty Quantification, Sensitivity Analysis and Experimental Design I Posters [SWIRL_CU]	
8:00-8:00 AM	H21H-1156. Monitoring Network Design for Discriminating and Reducing Models in Bayesian Model Averaging Paradigm F.T. Tsai; <u>H.V. Pham</u>
8:00 AM-12:20 PM, Hall A-C (Moscone South), H21I. Uncertainty in Water Management, Part 2: Risk Analysis, Decision Support and Law, With Special Focus on Hydrometeorological Scaling From Continents to Watersheds II Posters [SWIRL_CU]	
8:00-8:00 AM	H21I-1182. Rainfall and temperature estimation for a data sparse region <u>D. Yu</u> ; R.L. Wilby
8:00 AM-12:20 PM, Hall A-C (Moscone South), H21J. Water, Energy and Society in Urban Systems III Posters [SWIRL_US]	
8:00-8:00 AM	H21J-1199. DOES STORMWATER MANAGEMENT MAKE A DIFFERENCE? <u>A.J. Miller</u> ; C. Welty; G.A. Lindner
8:00 AM-12:20 PM, Hall A-C (Moscone South), OS21A. Ocean Sciences General Contributions II Posters	
8:00-8:00 AM	OS21A-1599. Coring Methane Hydrate by using Hybrid Pressure Coring System of D/V Chikyu <u>Y. Kubo</u> ; Y. Mizuguchi; F. Inagaki; N. Eguchi; K. Yamamoto

8:00-8:00 AM	OS21A-1620. Capillary effects on gas hydrate three-phase stability in marine sediments <u>X. Liu</u> ; P.B. Flemings
8:00 AM-12:20 PM, Hall A-C (Moscone South), P21B. Planetary Atmospheres and Evolution I Posters [SWIRL_DA]	
8:00-8:00 AM	P21B-1736. Investigating Climate at an Inland Sea During Snowball Earth <u>A.J. Campbell</u> ; C.M. Bitz; S.G. Warren; E.D. Waddington
8:00 AM-12:20 PM, Hall A-C (Moscone South), PA21B. Why Should We Talk About What We Don't Know? Implications of Communicating Scientific Uncertainty I Posters [SWIRL_CU]	
8:00-8:00 AM	PA21B-1870. Deterministic or Probabilistic - Robustness or Resilience: How to Respond to Climate Change? <u>H. Plag</u> ; D. Earnest; S. Jules-Plag
8:00-8:00 AM	PA21B-1875. What can decision makers achieve from computer simulations of environmental systems? <u>M.C. Hill</u> ; D. Kavetski; M.P. Clark; M. Ye; M. Arabi; D. Lu; L. Foglia; S. Mehl
8:00 AM-12:20 PM, Hall A-C (Moscone South), T21B. Continental Rifts and Rifted Margins VI Posters	
8:00-8:00 AM	T21B-2545. Geodynamic modeling of the Mid-Continental Rift System: Is a mantle plume required? <u>R. Moucha</u> ; T.O. Rooney; S.A. Stein; E. Brown
8:00 AM-12:20 PM, Hall A-C (Moscone South), V21A. Examining Soil Salts in Hyper-arid Environments on Earth and Mars Posters [SWIRL_GS]	
8:00-8:00 AM	V21A-2698. Salt Profile in Sedimentary Deposits: an archive of past climate and tectonics <u>T. Sun</u> ; H. Bao; M. Reich
8:00 AM-12:20 PM, Hall A-C (Moscone South), V21B. Investigating Volcanic Conduits and Related Processes Through Experiments, Numerical Modelling and Observations III Posters (cosponsored by EGU-GMPV)	
8:00-8:00 AM	V21B-2718. Timescales of magma ascent recorded by H₂O zonation in clinopyroxene <u>A.S. Lloyd</u> ; T.A. Plank; P. Ruprecht; E.H. Hauri; W.I. Rose
8:00 AM-10:00 AM, 2003 (Moscone West), EP21A. Coastal Geomorphology and Morphodynamics: Beaches and Barrier Islands II	
8:15-8:30 AM	EP21A-02. Punctuated events and long-term barrier evolution in a rising-sea-level world (<i>Invited</i>) <u>A.D. Ashton</u> ; A.C. Ortiz; J. Lorenzo Trueba; J.P. Donnelly; R.L. Evans
8:00 AM-10:00 AM, 3022 (Moscone West), H21K. Assessing Land Use Change Effects on Hydrological Processes and Feedbacks II	
8:30-8:45 AM	H21K-03. Assessing Resilience of Intensively Managed Landscapes through Feedbacks <u>A.E. Goodwell</u> ; P. Kumar

8:00 AM-10:00 AM, 103 (Moscone South), ED21B. Climate Literacy: Achieving Widespread Climate Literacy Through Innovative Engagement Strategies, Effective Partnerships, and Large-Scale Networks III (Virtual Option)	
9:00-9:15 AM	ED21B-05. Aiding cities in their work on climate change adaptation <u>P. Hamilton</u>
8:00 AM-10:00 AM, 2002 (Moscone West), B21G. Linking Landscape and Watershed Processes with Aquatic Ecosystem Functions, Services, and Sustainability II	
9:15-9:30 AM	B21G-06. A general framework for incorporating heterogeneity of aquatic ecosystems into aquatic network models to understand biogeochemical fluxes (<i>Invited</i>) <u>W.M. Wollheim</u> ; R. Stewart; K.R. Sheehan
8:00 AM-10:00 AM, 2003 (Moscone West), EP21A. Coastal Geomorphology and Morphodynamics: Beaches and Barrier Islands II	
9:30-9:45 AM	EP21A-07. Terrestrial laser scanning of anthropogenic beach berms for urban flood defense <u>B.F. Sanders</u> ; J. Schubert; T. Gallien; M. Shakeri Majd
8:00 AM-10:00 AM, 3002 (Moscone West), H21N. Hydrological Change and Water Systems: Feedbacks, Prediction, and Experimental Management I (Virtual Option)	
9:45-10:00 AM	H21N-08. From Hydroclimatic Prediction to Negotiated and Risk Managed Water Allocation and Reservoir Operation (<i>Invited</i>) <u>U. Lall</u>
10:20 AM-12:20 PM, 3009 (Moscone West), OS22B. Regime Changes in Estuarine and Coastal Systems II	
10:20-10:40 AM <u>(Conflict)</u>	OS22B-01. Assessment of the Correlation of Long-Term Hydrodynamic Variations and Dissolved Oxygen in the Chesapeake Bay (<i>Invited</i>) <u>J. Shen</u>
10:20 AM-12:20 PM, 304 (Moscone South), T22E. Seismology, Active Tectonics and Geomorphology in South and East Asia V: Structure/Tectonics	
10:20-10:35 AM <u>(Conflict)</u>	T22E-01. On the extent and significance of Oligocene mountain building in eastern Tibet (<i>Invited</i>) <u>E. Kirby</u> ; K.P. Furlong; K.L. Cook; W.B. Ouimet; X. Shi; E. Wang; P.J. Kamp; K.V. Hodges
10:20 AM-12:20 PM, 2003 (Moscone West), EP22A. Coastal Geomorphology and Morphodynamics: Nearshore Systems III	
10:50-11:05 AM <u>(Conflict)</u>	EP22A-03. Potential Cascading Failures of Long-term Shoreline Stabilization in a Coupled Morphoeconomic Coastline Evolution Model <u>K.D. Eills</u> ; D. McNamara; A. Murray
10:20 AM-12:20 PM, 310 (Moscone South), T22C. Investigating Marine Records of Climate-Tectonic Interactions in Active Orogens: Southern Alaska and Other Convergent Margins I	

10:50-11:05 AM (Conflict)	T22C-03. The Impact of Neogene Climate and Tectonics on Sediment Dispersal and Accumulation on a Glaciated Continental Margin: IODP Expedition 341 Southern Alaska J.M. Jaeger ; S.P. Gulick
10:20 AM-12:20 PM, 2020 (Moscone West), IN22A. Enabling Better Science Through Improving Science Software Development Culture I	
11:05-11:20 AM (Conflict)	IN22A-04. Pipe dream? Envisioning a grassroots Python ecosystem of open, common software tools and data access in support of river and coastal biogeochemical research (<i>Invited</i>) E. Mayorga
10:20 AM-12:20 PM, 2010 (Moscone West), EP22B. Path-Dependence and Hysteresis in Earth-Surface Dynamics I [SWIRL_CU]	
11:10-11:25 AM (Conflict)	EP22B-03. Numerical simulations of inherited sinuosity and valley entrenchment in mixed alluvial- and bedrock-banked meandering rivers A. Limaye ; M.P. Lamb
10:20 AM-12:20 PM, 2020 (Moscone West), IN22A. Enabling Better Science Through Improving Science Software Development Culture I	
11:20-11:35 AM (Conflict)	IN22A-05. HydroShare: Applying professional software engineering to a new NSF-funded large software project R. Idaszak ; D.G. Tarboton ; D. Ames ; J.A. Saleem Arrigo ; L.E. Band ; A. Bedig ; A.M. Castronova ; L. Christopherson ; J. Coposky ; A. Couch ; P. Dash ; T. Gan ; J. Goodall ; K. Gustafson ; J. Heard ; R.P. Hooper ; J.S. Horsburgh ; S. Jackson ; H. Johnson ; D.R. Maidment ; P. Mbewe ; V. Merwade ; B. Miles ; S. Reeder ; T. Russell ; C. Song ; A. Taylor ; S. Thakur ; D.W. Valentine ; T.L. Whiteaker
10:20 AM-12:20 PM, 2003 (Moscone West), EP22A. Coastal Geomorphology and Morphodynamics: Nearshore Systems III	
11:35-11:50 AM (Conflict)	EP22A-06. Time Series Observations of Seafloor Roughness in the Northern Gulf of Mexico 1: Sediment Transport J. Calantoni ; K. Eldredge ; T. Staples ; A. Sheremet ; A. Penko
10:20 AM-12:20 PM, 3003 (Moscone West), GC22A. Water, Climate Variability, and the Anthropocene I	
11:35-11:50 AM (Conflict)	GC22A-06. Interactions between climate change impacts on forest productivity and mortality and stream water quality in the US Western Mountains (<i>Invited</i>) C. Tague ; J. Zhu
10:20 AM-12:20 PM, 2010 (Moscone West), EP22B. Path-Dependence and Hysteresis in Earth-Surface Dynamics I [SWIRL_CU]	
11:40-11:55 AM (Conflict)	EP22B-05. Hysteresis in hillslope morphology records landscape growth and decay M.D. Hurst ; S.M. Mudd ; M. Attal ; G.E. Hilley
10:20 AM-12:20 PM, 3003 (Moscone West), GC22A. Water, Climate Variability, and the Anthropocene I	

11:50-12:05 PM (Conflict)	GC22A-07. Early Anthropogenic Transformation of the Danube-Black Sea System: From Records to Causes (<i>Invited</i>) <u>L. Giosan</u> ; M. Coolen
10:20 AM-12:20 PM, 2010 (Moscone West), EP22B. Path-Dependence and Hysteresis in Earth-Surface Dynamics I [SWIRL_CU]	
11:55-12:20 PM (Conflict)	EP22B-06. The role of temporally varying erodibility in hysteresis in fine-grained coastal systems <u>P. Wiberg</u> ; J.A. Carr
10:20 AM-12:20 PM, 2000 (Moscone West), B22C. Dynamics of Global Forests Under a Changing Climate I	
12:05-12:20 PM (Conflict)	B22C-08. Fires, invasives, migrations, oh my! Scaling spatial processes into earth system models and global change projections. (<i>Invited</i>) <u>M. Dietze</u>
12:30 PM-1:30 PM, 2007 (Moscone West), TH22G. InTeGrate: Interdisciplinary Teaching of Geoscience for a Sustainable Future	
12:30-12:30 PM	TH22G-01. InTeGrate: InTeGrate: Interdisciplinary Teaching of Geoscience for a Sustainable Future <u>C.A. Manduca</u> ; A.E. Egger; J.J. Taber
1:40 PM-6:00 PM, Hall A-C (Moscone South), GC23C. Water, Climate Variability, and the Anthropocene II Posters	
1:40-1:40 PM	GC23C-0939. Anthropogenic effects on global riverine sediment and water discharge - a spatially explicit analysis <u>S. Cohen</u> ; A.J. Kettner; J.P. Syvitski
1:40-1:40 PM	GC23C-0948. Expansive Tidal Marshes on the North American Eastern Seaboard: Relics of Colonial Deforestation? <u>A. Murray</u> ; M. Kirwan
1:40 PM-6:00 PM, Hall A-C (Moscone South), H23A. Advances in Hydrometeorological Predictions and Applications IV Posters	
1:40-1:40 PM	H23A-1227. Hydrologic modeling using topographically corrected NARR and NARCCAP climate data: Tucannon River, Washington <u>S.J. Praskievicz</u> ; P.J. Bartlein
1:40 PM-6:00 PM, Hall A-C (Moscone South), H23C. Eco-hydrology in a Changing Environment VI Posters	
1:40-1:40 PM	H23C-1277. Simulating stand-level water and carbon fluxes in beetle-attacked conifer forests in the Western U.S. <u>S.D. Peckham</u> ; B.E. Ewers; D.S. Mackay; E.G. Pendall; J.M. Frank; W.J. Massman
1:40 PM-6:00 PM, Hall A-C (Moscone South), H23E. High Resolution Hydrologic Modeling: Challenges and Avenues for Development II Posters [SWIRL_CM]	

1:40-1:40 PM	H23E-1317. Evaluating the Performance of a Coupled Distributed Hydrologic – Hydraulic Model for Flash Flood Modeling Using Multiple Precipitation Data Sources <u>P. Nguyen</u> ; S. Sorooshian; K. Hsu; A. AghaKouchak; B.F. Sanders
1:40 PM-6:00 PM, Hall A-C (Moscone South), NH23C. Planning and Mitigation for Natural Hazards Through Specialized Remote Sensing Techniques II Posters	
1:40-1:40 PM	NH23C-1540. Hydrologic Severity-based Forecast System for Road Infrastructure Monitoring F. Hernandez; L. Li; S. Lochan; <u>X. Liang</u> ; Y. Liang; W.L. Teng
1:40 PM-3:40 PM, 2007 (Moscone West), P23G. Planetary Atmospheres and Evolution II [SWIRL_DA]	
1:40-1:55 PM	P23G-01. Is the faint young Sun paradox solved? <u>E.T. Wolf</u> ; O.B. Toon
1:40 PM-6:00 PM, Hall A-C (Moscone South), PP23C. Water Isotope Systematics: Improving our Palaeoclimate Interpretations III Posters	
1:40-1:40 PM	PP23C-1991. The impact of differing physical assumptions on a water isotope climatology simulated by an isotope-enabled version of the NCAR Community Atmosphere Model Version 5 (CAM5). <u>J.M. Nusbaumer</u> ; C. Bardeen; E.C. Brady; T. Wong; D.C. Noone
1:40 PM-3:40 PM, 3018 (Moscone West), H23I. Advances in Spatial Scaling of Hydrological and Biogeochemical Processes II	
1:55-2:10 PM	H23I-02. Quantifying the imprint of geologic controls on river network topology and scaling in hydrologic response (<i>Invited</i>) M. Danesh Yazdi; A. Longjas; S. Zanardo; <u>E. Foufoula-Georgiou</u>
1:40 PM-3:40 PM, 2003 (Moscone West), EP23A. Coastal Geomorphology and Morphodynamics: Rivers, Deltas and Marshes IV	
2:40-2:55 PM <u>(Conflict)</u>	EP23A-05. The Statistical Signal of Morphological Process in Stratigraphy <u>C.R. Esposito</u> ; K.M. Straub
1:40 PM-3:40 PM, 2008 (Moscone West), EP23B. The Imprint of Past Climate Change on Landscapes I	
2:40-2:55 PM <u>(Conflict)</u>	EP23B-05. Climatic and paleoclimatic forcing of erosion in the southern Central Andes and the northwestern Himalaya (<i>Invited</i>) <u>B. Bookhagen</u> ; M.R. Strecker
1:40 PM-3:40 PM, 2003 (Moscone West), EP23A. Coastal Geomorphology and Morphodynamics: Rivers, Deltas and Marshes IV	
2:55-3:10 PM	EP23A-06. Statistical characterization of wind-wave induced sediment resuspension events in shallow tidal basins <u>A. D'Alpaos</u> ; L. Carniello; A. Rinaldo

1:40 PM-3:40 PM, 3011 (Moscone West), H23L. Mixing and Reaction in Hydrological Systems: From Experiment to Theory and Back I	
2:55-2:55 PM	H23L-06. Mineral Spatial Distribution in Determining Rates: When does it matter? <u>L. Li</u> ; F. Salehikhoo; S.L. Brantley
1:40 PM-3:40 PM, 3005 (Moscone West), H23N. The Flow Below: Defining, Quantifying, and Understanding Baseflow II	
3:25-3:40 PM (Conflict)	H23N-08. Examining the concept of baseflow using end-member mixing analysis (<i>Invited</i>) <u>R.P. Hooper</u>
1:40 PM-3:40 PM, 3022 (Moscone West), H23O. Uncertainty in Water Management, Part I: Uncertainty Quantification, Sensitivity Analysis and Experimental Design II [SWIRL_CU]	
3:25-3:40 PM (Conflict)	H23O-08. A New Computationally Frugal Method For Sensitivity Analysis Of Environmental Models O. Rakovec; <u>M.C. Hill</u> ; M.P. Clark; A. Weerts; R. Teuling; E. Borgonovo; R. Uijlenhoet
4:00 PM-6:00 PM, 3016 (Moscone West), H24G. Water Resources and Water Quality under Changing Climate and Land Use III	
4:00-4:30 PM (Conflict)	H24G-01. Regional climate variability and patterns of urban development - Impacts on the urban water cycle and nutrient export (<i>Invited</i>) <u>C. Welty</u> ; E. Bou-Zeid; E. Doheny; A. Gold; P.M. Groffman; M. Grove; S. Kaushal; A. Klaiber; E. Irwin; A.J. Miller; D. Newburn; J.A. Smith; C. Towe
4:00 PM-6:00 PM, 306 (Moscone South), T24A. Collision, Accretion, Slab-Windows and Oroclines: The Evolution of Congested Subduction Zone II	
4:15-4:30 PM (Conflict)	T24A-02. Dynamics of Continental Accretion <u>L.N. Moresi</u> ; P.G. Betts; M.S. Miller
4:00 PM-6:00 PM, 2008 (Moscone West), EP24B. Morphodynamics of Mixed Bedrock-Alluvial River Systems I	
4:30-4:45 PM (Conflict)	EP24B-03. Testing bedrock incision models: Holocene channel evolution, High Cascades, Oregon <u>K.E. Sweeney</u> ; J.J. Roering; M.A. Fonstad
4:00 PM-6:00 PM, 3011 (Moscone West), H24D. Mixing and Reaction in Hydrological Systems: From Experiment to Theory and Back II	
4:30-4:45 PM (Conflict)	H24D-03. High mountain water fluxes, a trans-Himalayan base-flow perspective <u>C. Andermann</u> ; T.C. Stieglitz; N. Hovius; R. Sharma; T. Labasque
4:00 PM-6:00 PM, 3007 (Moscone West), OS24A. Geodynamic, Sedimentary, and Oceanographic Processes of the South China Sea III	

4:45-5:00 PM (Conflict)	OS24A-04. Modern sediment dispersal pattern and sediment budget on the continental shelf off the Mekong River delta, South China Sea W. Szczucinski; R. Jagodzinski; T. Hanebuth; K. Stattegger; A. Wetzel; M. Mitrega; D. Unverricht; P. Van Phach
4:00 PM-6:00 PM, 304 (Moscone South), T24C. Seismology, Active Tectonics and Geomorphology in South and East Asia VII: Geomorphology	
4:45-5:00 PM (Conflict)	T24C-04. Geomorphic evidence for a major discontinuity in the Main Himalayan Thrust in west Nepal J.E. Harvey ; D.W. Burbank; B. Bookhagen
4:00 PM-6:00 PM, 2003 (Moscone West), EP24A. Glacier Processes on the Scales of Mountains and Orogens I	
4:55-5:15 PM (Conflict)	EP24A-04. Modeling subglacial hydrology and what that may tell us about erosion (<i>Invited</i>) M.A. Werder ; G.E. Flowers
4:00 PM-6:00 PM, 3003 (Moscone West), GC24B. Environmental, Socio-Economic and Climatic Changes in Northern Eurasia and their Feedbacks to the Global Earth System III	
5:00-5:15 PM (Conflict)	GC24B-05. On the weighting of CMIP5 multimodel ensembles in temperature simulation over Eurasia C. Miao ; Q. Duan
4:00 PM-6:00 PM, 2007 (Moscone West), P24B. Planetary Atmospheres and Evolution III [SWIRL_DA]	
5:15-5:30 PM	P24B-06. Conservation of Total Escape from Hydrodynamic Planetary Atmospheres F. Tian
4:00 PM-6:00 PM, 2008 (Moscone West), EP24B. Morphodynamics of Mixed Bedrock-Alluvial River Systems I	
5:30-5:45 PM	EP24B-07. Numerical Model of Turbulence, Sediment Transport, and Sediment Cover in a Large Canyon-Bound River L.V. Alvarez ; M.W. Schmeckle
4:00 PM-6:00 PM, 2003 (Moscone West), EP24A. Glacier Processes on the Scales of Mountains and Orogens I	
5:45-6:00 PM (Conflict)	EP24A-07. Relative importance of fluvial and glacial erosion in shaping the Chandra Valley, western Himalaya, India P. Eugster ; D. Scherler; R.C. Thiede; A. Codilean; M.R. Strecker
4:00 PM-6:00 PM, 2008 (Moscone West), EP24B. Morphodynamics of Mixed Bedrock-Alluvial River Systems I	
5:45-6:00 PM (Conflict)	EP24B-08. Modelling Incision in Mixed Bedrock-Alluvial Rivers: The Role of Sediment Waves (<i>Invited</i>) G. Parker ; L. Zhang; C.P. Stark; E. Viparelli; X. Fu

Wednesday, December 11, 2013

Time	Session Info
8:00 AM-12:20 PM, Hall A-C (Moscone South), C31B. Integration of International Arctic Research Programs and Data Streams From Polar Observatories, User Facilities, Data Collection Networks, and Field Campaigns I Posters	
8:00-8:00 AM	C31B-0649. Observation Platforms and Data Streams of the Arctic Next Generation Ecosystem Experiment (NGEE-Arctic) <u>L.D. Hinzman</u> ; S.D. Wulfschleger; D.E. Graham; S.S. Hubbard; R.J. Norby; A. Rogers; M.S. Torn; C.J. Wilson
8:00 AM-12:20 PM, Hall A-C (Moscone South), EP31A. Deltas: A Multi-trillion Dollar Global Problem I Posters	
8:00-8:00 AM	EP31A-0818. Linking shoreline displacement to environmental conditions in the Wax Lake Delta, USA <u>N. Geleynse</u> ; M.R. Hiatt; H. Sangireddy; P. Passalacqua
8:00-8:00 AM	EP31A-0829. NUMERICAL MODELING OF MIXING OVER DUNE BEDS UNDER LOW AND HIGH TIDE CONDITIONS <u>J. Imran</u> ; K. Abdo; A. Cantelli
8:00-8:00 AM	EP31A-0830. Modeling Floodplain Dynamics: Can the Ganges-Brahmaputra Delta keep pace with 21st Century Sea Level Rise? <u>K.G. Rogers</u> ; I. Overeem
8:00-8:00 AM	EP31A-0835. Holocene evolution of a wave-dominated fan-delta: Godavari delta, India <u>Y. Saito</u> ; K. Nageswara Rao; K. Nagakumar; G. Demudu; A. Rajawat; S. Kubo; Z. Li
8:00-8:00 AM	EP31A-0847. Geomorphology and Landscape Evolution Model for the natural and human-impacted regions of the Ganges-Brahmaputra-Meghna Delta <u>C. Wilson</u> ; S.L. Goodbred; L. Wallace Auerbach; K. Ahmed; C. Paola; M.D. Reitz; J. Pickering
8:00 AM-12:20 PM, Hall A-C (Moscone South), G31A. Recent Advances in the Application of InSAR and High-Resolution Geodetic Data for Crustal Deformation Research I Posters	
8:00-8:00 AM	G31A-0932. Space geodetic observations and modeling of postseismic deformation due to the 2005 M7.6 Kashmir (Pakistan) earthquake <u>K. Wang</u> ; Y.A. Fialko
8:00-8:00 AM	G31A-0952. Decadal strain along creeping faults in the Needles District, Paradox Basin Utah determined with InSAR Time Series Analysis <u>K. Kravitz</u> ; M. Furuya; K.J. Mueller
8:00 AM-12:20 PM, Hall A-C (Moscone South), GC31A. Magnitudes and Mechanisms of Ice Sheet Melt, Sea-Level Changes, and Coastal Inundation: Past and Future I Posters	

8:00-8:00 AM	GC31A-1018. Minimizing Uncertainty in Coastal Digital Elevation Models <u>B. Eakins</u> ; J. Danielson; S.J. McLean
8:00 AM-12:20 PM, Hall A-C (Moscone South), H31H. Water Resources and Water Quality under Changing Climate and Land Use IV Posters	
8:00-8:00 AM	H31H-1315. The Implication of Water Resources Development and Climate Change on Tropical Lakes and Rivers <u>S. Setegn</u>
8:00 AM-12:20 PM, Hall A-C (Moscone South), IN31A. Data Management Strategies for Airborne Science Data Posters	
8:00-8:00 AM	IN31A-1499. Increasing the Impact of High-Resolution Lidar Topography Through Online Data Access and Processing <u>C.J. Crosby</u> ; V. Nandigam; C. Baru; R. Arrowsmith
8:00 AM-12:20 PM, Hall A-C (Moscone South), DI31A. State of the Art in Computational Geoscience I Posters [SWIRL_CM.CU]	
8:00-8:00 AM	DI31A-2208. TerraFERMA: The Transparent Finite Element Rapid Model Assembler for multi-physics problems in the solid Earth sciences <u>M.W. Spiegelman</u> ; C.R. Wilson; P.E. Van Keken
8:00 AM-12:20 PM, Hall A-C (Moscone South), T31B. Evolution of the Northern Tibetan Plateau: Lithospheric Geodynamics, Plateau Uplift, and Links to Climate Change II Posters	
8:00-8:00 AM	T31B-2505. A numerical model of continental topographic evolution integrating thin sheet tectonics, river transport, and climate <u>D. Garcia-Castellanos</u> ; I. Jimenez-Munt
8:00 AM-10:00 AM, 2010 (Moscone West), EP31D. Connecting Natural Landscapes to Experimental and Numerical Models of Earth and Planetary Surface Evolution I	
8:15-8:30 AM	EP31D-02. Creative Computing with Landlab: Open-Source Python Software for Building and Exploring 2D Models of Earth-Surface Dynamics <u>G.E. Tucker</u> ; D.E. Hobbey; N.M. Gasparini; E. Hutton; E. Istanbuluoglu; S. NUDURUPATI; J.M. Adams
8:30-8:45 AM	EP31D-03. VALIDATION OF A PARCEL-BASED REDUCED-COMPLEXITY MODEL FOR RIVER DELTA FORMATION (Invited) <u>M. Liang</u> ; N. Geleynse; P. Passalacqua; D.A. Edmonds; W. Kim; V.R. Voller; C. Paola
9:15-9:30 AM (Conflict)	EP31D-06. Is a Dendritic Drainage Basin Inevitable? (Invited) <u>G. Parker</u> ; M. Domanski; S. Weiss; N. Moller; J. Kwang; L. Zhang; X. Fu
8:00 AM-10:00 AM, 3020 (Moscone West), H31M. Hydropedology: Synergistic Integration of Soil Science and Hydrology in the Critical Zone II [SWIRL_GS]	
9:25-9:40 AM (Conflict)	H31M-06. A spatial scaling relationship for soil moisture in a semiarid landscape, using spatial scaling relationships for pedology <u>G.R. Willgoose</u> ; M. Chen; S. Cohen; P.M. Saco; G.R. Hancock

8:00 AM-10:00 AM, 2010 (Moscone West), EP31D. Connecting Natural Landscapes to Experimental and Numerical Models of Earth and Planetary Surface Evolution I	
9:30-9:45 AM (Conflict)	EP31D-07. Scaling the Morphology of Sapping and Pressurized Groundwater Experiments to Martian Valleys <u>W.A. Marra</u> ; M.G. Kleinhans
8:00 AM-10:00 AM, 3007 (Moscone West), OS31D. Dynamics of the Equatorial Oceans and Atmosphere I	
9:45-10:00 AM	OS31D-08. The Seasonal Circulation and Dynamics of the South China Sea (SCS) and the Indonesian Throughflow (ITF) Region <u>D. Xu</u> ; P.M. Rizzoli
10:20 AM-12:20 PM, 2010 (Moscone West), EP32B. Connecting Natural Landscapes to Experimental and Numerical Models of Earth and Planetary Surface Evolution II	
10:50-11:05 AM	EP32B-03. Increased complexity modeling provides new physical understanding of landscape-forming processes (<i>Invited</i>) <u>M.W. Schmeeckle</u>
11:05-11:20 AM	EP32B-04. Probability-Based Model of Sediment Transport During Extreme Flood Events in Mountain Catchments <u>M.C. Perignon</u> ; G.E. Tucker
10:20 AM-12:20 PM, 3016 (Moscone West), H32F. Remote Sensing Applications for Water Resources Management II: Groundwater Monitoring, Data Integration and Modeling	
11:20-11:35 AM (Conflict)	H32F-05. Utilizing Multi-Sensor Data Products and high-resolution flood model in Analyzing North African Hydrological Processes <u>K. Thengumthara</u> ; F. Policelli; S. Habib; J.L. David; K.A. Melocik; G.J. Huffman; M.C. Anderson; A.B. Ali; S. Bacha
10:20 AM-12:20 PM, 2020 (Moscone West), IN32A. Emerging Technologies in Earth and Space Science Informatics (ESSI) I	
11:20-11:35 AM (Conflict)	IN32A-05. Use of natural user interfaces in water simulations <u>G. Donchyts</u> ; F. Baart; A. van Dam; B. Jagers
10:20 AM-12:20 PM, 3016 (Moscone West), H32F. Remote Sensing Applications for Water Resources Management II: Groundwater Monitoring, Data Integration and Modeling	
11:35-11:50 AM	H32F-06. Global Water Maps <u>D.R. Maidment</u> ; F. Salas; W.L. Teng
10:20 AM-12:20 PM, 2010 (Moscone West), EP32B. Connecting Natural Landscapes to Experimental and Numerical Models of Earth and Planetary Surface Evolution II	
12:05-12:20 PM	EP32B-08. Hydrodynamic controls on floodplain construction over years to millennia <u>A.P. Nicholas</u> ; R.E. Aalto; A. Schwendel; G. Sambrook Smith
12:30 PM-1:30 PM, 2005 (Moscone West), TH32D. Building a Sediment Experimentalist Network	

12:30-12:30 PM	TH32D-01. Building a Sediment Experimentalist Network <u>L. Hsu</u> ; W. Kim; R.L. Martin; B.J. McElroy
1:40 PM-6:00 PM, Hall A-C (Moscone South), B33F. Land Use and Climate Change Impacts on Water-Related Ecosystem Services II Posters	
1:40-1:40 PM	B33F-0553. Identification of anthropogenic nitrogen sources using stable isotopes and reactive hydrologic modeling <u>M.T. O'connell</u> ; S.A. Macko; Y. Fu
1:40 PM-6:00 PM, Hall A-C (Moscone South), C33A. Climate Change and Cryospheric Systems V Posters	
1:40-1:40 PM	C33A-0691. Climatology and Changes in the Timing and Duration of Surface Soil Freeze/Thaw Status from 1956-2006 over China <u>K. Wang</u> ; T. Zhang
1:40 PM-6:00 PM, Hall A-C (Moscone South), C33B. Glacier, Ice Cap, and Ice Sheet Hydrology I Posters	
1:40-1:40 PM	C33B-0715. In Situ Data Suggest Supra-, En- and/or Subglacial Meltwater Retention in Southwest Greenland <u>A.K. Rennermalm</u> ; A.B. Mikkelsen; D. van As; I. Overeem; L.C. Smith; V. Chu; P.W. Nienow; A. Tedstone
1:40-1:40 PM	C33B-0716. Fast flow of Jakobshavn Isbræ and its subglacial drainage system <u>M.A. Werder</u> ; I.R. Joughin
1:40-1:40 PM	C33B-0720. Hydrometeorology and basal sliding on the Kennicott Glacier, Alaska, USA: Evidence for seasonal, diurnal, and event-scale glacier velocity fluctuations due to varying meltwater inputs and precipitation events <u>W.H. Armstrong</u> ; R.S. Anderson; E.C. Pettit; H. Rajaram
1:40-1:40 PM	C33B-0728. Physical and chemical characteristics of the Subglacial Lake Whillans sediment cores, Whillans Ice Stream, West Antarctica <u>T.O. Hodson</u> ; R.D. Powell
1:40-1:40 PM	C33B-0730. River Channel Expansion Reveals Ice Sheet Runoff Variations <u>I. Overeem</u> ; B.D. Hudson; E. Welty; A. LeWinter; A.B. Mikkelsen
1:40-1:40 PM	C33B-0732. Estimating Freshwater Discharge from the Greenland Ice Sheet with MODIS <u>B.D. Hudson</u> ; I. Overeem; A.B. Mikkelsen; D. McGrath; J.P. Syvitski
1:40 PM-6:00 PM, Hall A-C (Moscone South), EP33A. Connecting Natural Landscapes to Experimental and Numerical Models of Earth and Planetary Surface Evolution III Posters	
1:40-1:40 PM	EP33A-0857. From Fractal Trees to Deltaic Networks <u>D. Cazanacli</u> ; M.A. Wolinsky; Z. Sylvester; A. Cantelli; C. Paola

1:40-1:40 PM	EP33A-0858. A New Hydrologic-Morphodynamic Model for Regolith Formation and Landscape Evolution <u>Y. Zhang</u> ; R.L. Slingerland; C. Duffy
1:40-1:40 PM	EP33A-0859. Exploring controls on valley spacing in higher order fluvial channels with the CHILD Model <u>J. Han</u> ; N.M. Gasparini; J.P. Johnson
1:40-1:40 PM	EP33A-0861. Quantifying the role of channel width in transient bedrock river evolution over geologic timescales <u>B.J. Yanites</u>
1:40-1:40 PM	EP33A-0862. River Capture in Disequilibrium Landscapes <u>S.W. McCoy</u> ; J. Perron; S. Willett; L. Goren
1:40-1:40 PM	EP33A-0863. Modeling post-wildfire fluvial incision and terrace formation <u>F.K. Rengers</u> ; G.E. Tucker
1:40-1:40 PM	EP33A-0867. Landlab Ecohydrology: A component-based computational environment for ecohydrologic modeling and its illustrations through model building <u>S. NUDURUPATI</u> ; E. Istanbuluoglu; J.M. Adams; N.M. Gasparini; G.E. Tucker; E. Hutton; D.E. Hobbey
1:40-1:40 PM	EP33A-0868. Modeling impact cratering as a geomorphic process using the novel landscape evolution model Landlab <u>D.E. Hobbey</u> ; G.E. Tucker; J.M. Adams; N.M. Gasparini; E. Hutton; E. Istanbuluoglu; S. NUDURUPATI
1:40-1:40 PM	EP33A-0869. Influence of sediment cohesion on stratigraphic architecture <u>Q. Li</u> ; W. Benson; K.M. Straub
1:40-1:40 PM	EP33A-0870. What can a numerical landscape evolution model tell us about the evolution of a real landscape? Two examples of modeling a real landscape without recreating it. <u>N.M. Gasparini</u> ; <u>K.X. Whipple</u> ; J. Willenbring; B.T. Crosby; G.Y. Brocard
1:40-1:40 PM	EP33A-0876. The Influence of Laboratory-Generated Tides on Experimental Deltas <u>S.E. Baumgardner</u> ; A. Abeyta; D. Cazanaclic; C. Paola
1:40-1:40 PM	EP33A-0878. An Experimental Study of Submarine Canyon Evolution on Continental Slopes <u>S.Y. Lai</u> ; T.P. Gerber; D. Amblas
1:40 PM-6:00 PM, Hall A-C (Moscone South), EP33B. Exploring the Interplay Between Solid Earth Tectonics and Surface Processes From Mountains to the Sea Posters	
1:40-1:40 PM	EP33B-0889. Reconstructing the formation and in-filling of Lake Manuherikia, Otago: Linking geodynamics and surface processes <u>P. Upton</u> ; G. Duclaux; D. Craw; T.B. Salles; R. Walcott

1:40-1:40 PM	EP33B-0890. Decadal to millennial deformation in the Pamir – Tian Shan collision zone, NW China and surface expression of active tectonics. <u>A. Bufer</u> ; B. Bookhagen; D.W. Burbank; D.P. Bekaert; E. Hussain
1:40-1:40 PM	EP33B-0893. A comprehensive view of Late Quaternary fluvial sediments and stratal architecture in a tectonically active basin: Influence of eustasy, climate, and tectonics on the Bengal Basin and Brahmaputra River system <u>R. Sincavage</u> ; S.L. Goodbred; L.A. Williams; J. Pickering; C. Wilson; M.S. Steckler; L. Seeber; M.D. Reitz; S. Hossain; S.H. Akhter; D.R. Mondal; C. Paola
1:40-1:40 PM	EP33B-0905. Quantifying Holocene Coastal Retreat From River Morphology in Southern England and Wales <u>M. Attal</u> ; S.M. Mudd; M.D. Hurst; B.A. Crickmore
1:40-1:40 PM	EP33B-0908. Using the stratigraphic record to document tectonic-geomorphologic interactions in a foreland basin setting: outcrop study of the Ainsa Basin, Spain <u>D.R. Pyles</u> ; J. Moody; G. Gordon; M. Hoffman; A. Moss-Russell; H. Silalahi; P. Setiawan; J. Clark; B. Bracken; C. Guzowski
1:40 PM-6:00 PM, Hall A-C (Moscone South), EP33C. Morphodynamics of Mixed Bedrock-Alluvial River Systems II Posters	
1:40-1:40 PM	EP33C-0916. A theoretical framework for quantifying the relative importance of dissolution and mechanical erosion in soluble bedrock channels <u>M.D. Covington</u> ; F. Gabrovšek; J.D. Gulley
1:40-1:40 PM	EP33C-0926. Morphodynamics and anabranching patterns generated in the Madeira River, Brazil. E.M. Latrubesse; C. Bonthuis; <u>J.D. Abad</u> ; J. Stevaux; N. Filizola ; C.E. Frias
1:40 PM-3:40 PM, 2005 (Moscone West), EP33D. Deltas: A Multi-trillion Dollar Global Problem II	
1:40-1:55 PM <u>(Conflict)</u>	EP33D-01. Ganges-Brahmaputra Delta: Balance of Subsidence, Sea level and Sedimentation in a Tectonically-Active Delta (Invited) <u>M.S. Steckler</u> ; S.L. Goodbred; S.H. Akhter; L. Seeber; M.D. Reitz; C. Paola; S.L. Nooner; S. DeWolf; E.K. Ferguson; J. Gale; S. Hossain; M. Howe; W. Kim; C.M. McHugh; D.R. Mondal; A.L. Petter; J. Pickering; R. Sincavage; L.A. Williams; C. Wilson; M.A. Zumberge
1:40 PM-6:00 PM, Hall A-C (Moscone South), G33A. 4D Topography: Detecting Changes to the Earth's Surface With Multi-temporal, High-Resolution Topographic Data II Posters	
1:40-1:40 PM	G33A-0966. Using High-temporal-resolution, Repeat Terrestrial LiDAR to Compare Topographic Change Detection Methods and to Elucidate the Hydrometeorologic Controls on the Retreat Rate and Form of the Selawik Retrogressive Thaw Slump, Northwest Alaska <u>T.B. Barnhart</u> ; B.T. Crosby; D.R. Derryberry; J.C. Rowland

1:40-1:40 PM	G33A-0973. Erosion and Channel Incision Analysis with High-Resolution Lidar <u>J. Potapenko</u> ; B. Bookhagen
1:40-1:40 PM	G33A-0979. Quantifying geomorphic change and characterizing uncertainty in repeat aerial lidar over an enormous area: Blue Earth County, MN <u>K.R. Schaffrath</u> ; P. Belmont; J.M. Wheaton
1:40 PM-6:00 PM, Hall A-C (Moscone South), H33A. Advances in Ecohydraulics and Biogeomorphology: Coupling System Processes Posters [SWIRL_CU]	
1:40-1:40 PM	H33A-1329. Modeling the gopher-meadow eco-geomorphic system on montane hillslopes <u>E.W. Winchell</u> ; D.F. Doak; R.S. Anderson
1:40-1:40 PM	H33A-1334. Modeling the Channel/Floodplain Interface: The Influence of Riparian Vegetation on Mass and Momentum Exchange <u>M.C. Stone</u>
1:40-1:40 PM	H33A-1338. Reciprocal Vegetation-Flow Feedbacks Driving Early-Stage Landscape Evolution in a Restored Wet Meadow <u>L. Larsen</u> ; D.J. Merritts; R.C. Walter; D. Watts
1:40 PM-3:40 PM, 3011 (Moscone West), H33L. Pore Structure, Fluid Flow, and Mass Transport in Porous Media II [SWIRL_CM]	
1:40-1:55 PM <u>(Conflict)</u>	H33L-01. Water-Organic-Rock Reactions Recorded in Pores in Shales from the Marcellus and Rose Hill Formations (Invited) <u>S.L. Brantley</u> ; L. Jin; G. Rother; D.R. Cole; x. gu; V.N. Balashov
1:40 PM-3:40 PM, 2020 (Moscone West), IN33C. Future of Earth Science Informatics in Access, Visualization, and Analysis of Large-Scale Data II	
1:40-1:55 PM <u>(Conflict)</u>	IN33C-01. Smart Frameworks and Self-Describing Models: Model Metadata for Automated Coupling of Hydrologic Process Components (Invited) <u>S.D. Peckham</u>
1:40 PM-6:00 PM, Hall A-C (Moscone South), NH33A. Mechanisms, Vulnerability, Hazard, and Risk: From Shallow to Deep Seated Slope Deformation III Posters	
1:40-1:40 PM	NH33A-1629. Model Building Strategies for Predicting Multiple Landslide Events <u>L. Lombardo</u> ; M. Cama; M. Märker; L. Parisi; E. Rotigliano
1:40 PM-3:40 PM, 302 (Moscone South), T33E. Geodynamic Modeling of Lithosphere Deformation: Advances and Challenges II [SWIRL_CM]	
1:40-1:55 PM <u>(Conflict)</u>	T33E-01. Underworld: What we set out to do, How far did we get, What did we Learn ? (Invited) <u>L.N. Moresi</u>
1:40 PM-3:40 PM, 2005 (Moscone West), EP33D. Deltas: A Multi-trillion Dollar Global Problem II	
1:55-2:10 PM <u>(Conflict)</u>	EP33D-02. Slope-mediated and Deltaic Avulsions on the Huanghe River, China <u>V. Ganti</u> ; Z. Chu; H.J. Hassenruck-Gudipati; M.P. Lamb

1:40 PM-3:40 PM, 2003 (Moscone West), EP33E. Fluvial Sediment Budgets: Can We Do Better? I [SWIRL_CU]	
1:55-2:10 PM (Conflict)	EP33E-02. Better budgeting by redundancy, context, and coupling of coarse and fine sediment dynamics (<i>Invited</i>) <u>P. Belmont</u>
1:40 PM-3:40 PM, 2005 (Moscone West), EP33D. Deltas: A Multi-trillion Dollar Global Problem II	
2:10-2:25 PM (Conflict)	EP33D-03. Modeling delta growth and channel geometry on Wax Lake Delta, Louisiana. Preliminary results <u>E. Viparelli</u> ; M.J. Czapiga; C. Li; J.B. Shaw; G. Parker
1:40 PM-3:40 PM, 2020 (Moscone West), IN33C. Future of Earth Science Informatics in Access, Visualization, and Analysis of Large-Scale Data II	
2:10-2:25 PM (Conflict)	IN33C-03. Leveraging the DataNet Federation Consortium (DFC) to Support Regional-Scale Hydrologic Modeling (<i>Invited</i>) <u>J.L. Goodall</u> ; M.M. Billah; B. Essawy; U. Narayan; V. Lakshmi; A. Rajasekar; R. Moore
1:40 PM-3:40 PM, 300 (Moscone South), NG33B. Pattern Formation and Nonlinear and Scaling Geoprocesses: From Microscale to the Climate I [SWIRL_CM.CU]	
2:10-2:25 PM (Conflict)	NG33B-03. The Shape of Patterns to Come (<i>Invited</i>) <u>A. Murray</u> ; E.B. Goldstein; G. Coco
1:40 PM-3:40 PM, 2005 (Moscone West), EP33D. Deltas: A Multi-trillion Dollar Global Problem II	
2:25-2:40 PM (Conflict)	EP33D-04. Three dimensional numerical modeling of shallow jets: importance of frictional effects on the morphodynamics of river mouth bars and levees <u>A. Canestrelli</u> ; W. Nardin; D.A. Edmonds; S. Fagherazzi; R.L. Slingerland
1:40 PM-3:40 PM, 2020 (Moscone West), IN33C. Future of Earth Science Informatics in Access, Visualization, and Analysis of Large-Scale Data II	
2:25-2:40 PM (Conflict)	IN33C-04. GEOSS Water Services for Data and Maps <u>D.K. Arctur</u> ; D.R. Maidment; R.G. Lawford
2:40-2:55 PM	IN33C-05. Design and Implementation of Hydrologic Process Knowledge-base Ontology: A case study for the Infiltration Process <u>M. Elag</u> ; J.L. Goodall
1:40 PM-3:40 PM, 2005 (Moscone West), EP33D. Deltas: A Multi-trillion Dollar Global Problem II	
2:55-3:10 PM	EP33D-06. Left Behind: Effects of marine reworking and sea-level rise on deltas of the 21st century (<i>Invited</i>) <u>A.D. Ashton</u> ; J. Nienhuis; A.C. Ortiz; J. Lorenzo Trueba; L. Giosan

3:25-3:40 PM	EP33D-08. Maintenance of large deltas through channelization <u>L. Giosan</u> ; S. Constatinescu; F. Filip
4:00 PM-6:00 PM, 2005 (Moscone West), EP34B. Deltas: A Multi-trillion Dollar Global Problem III	
4:00-4:15 PM	EP34B-01. DELTAS: A new Global Delta Sustainability Initiative (<i>Invited</i>) <u>E. Foufoula-Georgiou</u>
4:15-4:30 PM	EP34B-02. A global deltas typology of environmental stress and its relation to terrestrial hydrology <u>Z.D. Tessler</u> ; C.J. Vorosmarty; K.C. McDonald; R. Schroeder; M. Grossberg; I. Gladkova; H. Aizenman
4:00 PM-6:00 PM, 307 (Moscone South), ED34A. From Pole to Pole: Experiences Educating About the Polar Regions II	
4:30-4:45 PM	ED34A-03. Using high-resolution satellite imagery to engage students in classroom experiences which meld research, the nature of science, and inquiry-based instruction. J. Pennycook; M. LaRue; B. Herried; <u>P.J. Morin</u>
4:00 PM-6:00 PM, 2007 (Moscone West), EP34A. Climatic and Glaciological Significance of Glacial Landforms and Landscape Evolution I	
4:45-5:00 PM <i>(Conflict)</i>	EP34A-04. The effect of interannual variability on the moraine record: A new perspective on paleoclimate estimation in glacial landscapes <u>L.S. Anderson</u> ; G. Roe; R.S. Anderson
4:00 PM-6:00 PM, 2003 (Moscone West), EP34C. Fluvial Sediment Budgets: Can We Do Better? II [SWIRL_CU]	
4:45-5:00 PM <i>(Conflict)</i>	EP34C-04. The Sensitivity of Sediment Path-Lengths to Channel Morphology: Results from Physical Models of Braided Rivers <u>A. Kasprak</u> ; P. Ashmore; S. Peirce; J.M. Wheaton
4:00 PM-6:00 PM, 3014 (Moscone West), H34B. Information and Uncertainty in Data and Models: Toward a Common Framework for Model Building and Prediction III [SWIRL_CU]	
5:00-5:15 PM <i>(Conflict)</i>	H34B-05. Spatiotemporal variability of rainfall extremes in monsoonal climates – examples from the South American Monsoon and the Indian Monsoon Systems (<i>Invited</i>) <u>B. Bookhagen</u> ; N. Boers; N. Marwan; N. Malik; J. Kurths
4:00 PM-6:00 PM, 309 (Moscone South), NH34A. Interdisciplinary Approaches to Natural Hazards: Environmental, Economical, and Societal Significance II	
5:00-5:15 PM <i>(Conflict)</i>	NH34A-05. Recovery of coastal ecosystems after large tsunamis in various climatic zones - review of cases from tropical, temperate and polar zones (<i>Invited</i>) <u>W. Szczucinski</u>
4:00 PM-6:00 PM, 2005 (Moscone West), EP34B. Deltas: A Multi-trillion Dollar Global Problem III	

5:30-5:45 PM <u>(Conflict)</u>	EP34B-07. Sinking Coastlines: Land Subsidence at Aquaculture Facilities in the Yellow River Delta, China, measured with Differential Synthetic Aperture Radar (D-InSAR) <u>S. Higgins</u> ; I. Overeem; A. Tanaka; J.P. Syvitski
4:00 PM-6:00 PM, 305 (Moscone South), DI34B. State of the Art in Computational Geoscience II [SWIRL_CM.CU]	
5:30-5:45 PM <u>(Conflict)</u>	DI34B-07. Computational Hydrology: simulating the integrated water cycle using high performance computing (<i>Invited</i>) <u>R.M. Maxwell</u>

Thursday, December 12, 2013

Time	Session Info
8:00 AM-12:20 PM, Hall A-C (Moscone South), C41B. Advances in Monitoring, Measuring, and Modeling of Snow, Snow-Vegetation and Avalanche Processes I Posters	
8:00-8:00 AM	C41B-0607. Using Forest Radiation Model (FoRM) to Quantify the Role of Canopy Coverage on Net Snow Cover Radiation <u>B. Seyednasrollah</u> ; M. Kumar
8:00-8:00 AM	C41B-0621. Are weather models better than gridded observations for precipitation in the mountains? (<i>Invited</i>) <u>E.D. Gutmann</u> ; R. Rasmussen; C. Liu; K. Ikeda; M.P. Clark; L.D. Brekke; J. Arnold; D.A. Raff
8:00-8:00 AM	C41B-0633. Combining remotely-sensed snow water equivalent with in-situ measurements to produce a real-time SWE product <u>D. Schneider</u> ; N.P. Molotch
8:00 AM-12:20 PM, Hall A-C (Moscone South), EP41B. Glacier Processes on the Scales of Mountains and Orogens II Posters	
8:00-8:00 AM	EP41B-0799. Variations in Glacial Erosion over Multiple Glacial-Interglacial Cycles <u>R.M. Headley</u> ; T.A. Ehlers
8:00 AM-12:20 PM, Hall A-C (Moscone South), EP41C. The Imprint of Past Climate Change on Landscapes II Posters	
8:00-8:00 AM	EP41C-0805. Landslide statistics reveal a transient response and annealing of a landscape as it emerges from LGM conditions <u>M.A. Ellis</u> ; M.D. Hurst; K.R. Royse; K.A. Lee; K. Freeborough
8:00-8:00 AM	EP41C-0807. A 50-ky record of climate, ecosystem, and erosion rate change in the Oregon Coast Range <u>J.A. Marshall</u> ; J.J. Roering; D.E. Granger; D.G. Gavin
8:00 AM-12:20 PM, Hall A-C (Moscone South), H41F. Hydrologic Controls on Biogeochemical and Ecosystem Processes at the Land-Sea Interface III Posters	

8:00-8:00 AM	H41F-1297. The Significance of Ultra-Refracted Ocean Waves to Sediment Dynamics and Water Quality in Sheltered Areas, With Application to Crissy Field Marsh, San Francisco <u>D.M. Hanes</u>
8:00 AM-12:20 PM, Hall A-C (Moscone South), H41H. Overcoming Remediation Barriers and Improving the Understanding of Processes Controlling Contaminant Transport III Posters	
8:00-8:00 AM	H41H-1352. Smouldering Combustion for Soil Remediation: Two-dimensional Experiments and Modelling <u>T. Hasan</u> ; J.I. Gerhard; R. Hadden; P. Pironi; G. Rein
8:00 AM-12:20 PM, Hall A-C (Moscone South), IN41A. Emerging Concepts for Cyberinfrastructure in the Geosciences I Posters	
8:00-8:00 AM	IN41A-1600. Evaluation of the Earth System CoG Infrastructure in Supporting a Model Intercomparison Project <u>J.C. Wallis</u> ; R.B. Rood; S. Murphy; L. Cinquini; C. DeLuca
8:00 AM-12:20 PM, Hall A-C (Moscone South), NS41A. Geophysical Methods for Groundwater Evaluation and Management II Posters	
8:00-8:00 AM	NS41A-1778. Control of in-situ Q by stress and water saturation, for shallow (m), unconsolidated sand. <u>J.M. Lorenzo</u> ; J.M. Crane; J. Shen
8:00 AM-12:20 PM, Hall A-C (Moscone South), OS41D. Thirty Years of ENSO Research: Dynamics, Predictability, Modeling, Impacts IV Posters	
8:00-8:00 AM	OS41D-1861. Testing for orbital and solar forcing of the ENSO system during the Holocene <u>H. Grist</u> ; T.M. Marchitto; A.O. Parker; J.D. Ortiz; A. van Geen
8:00 AM-12:20 PM, Hall A-C (Moscone South), DI41A. Multidisciplinary Constraints on the Nature and Scale of Mantle Heterogeneities II Posters	
8:00-8:00 AM	DI41A-2327. Iron Oxidation State and Compressional Behaviors of Al,Fe-rich Mantle Silicate Perovskite up to 90 GPa <u>Q. Zhang</u> ; S. Shim; Y. Meng; V. Prakapenka; E.E. Alp
8:00 AM-12:20 PM, Hall A-C (Moscone South), V41A. Geochemistry of Geologic Carbon Sequestration III Posters [SWIRL_CS] (cosponsored by EGU-GMPV and MSA)	
8:00-8:00 AM	V41A-2742. Controls on CO2 Mineralization in Volcanogenic Sandstone Reservoir Rocks <u>S. Zhang</u> ; D.J. DePaolo; T. Xu; M. Voltolini
8:00 AM-10:00 AM, 3005 (Moscone West), C41E. Glacier Monitoring From In-situ and Remotely Sensed Observations II	
8:20-8:40 AM (Conflict)	C41E-02. Millennial scale ice dynamics and the spatial partition of Greenland mass change (<i>Invited</i>) <u>W.T. Colgan</u> ; W. Abdalati; J.E. Box; B.M. Csatho; R.S. Fausto; X. Fettweis; S.B. Luthcke; T.A. Scambos; D. van As; J.M. Wahr; H. Zwally

8:00 AM-10:00 AM, 2005 (Moscone West), EP41E. New Concepts in River Mapping and Analysis I	
8:30-8:45 AM (Conflict)	EP41E-03. Automated Derivation of Fish Habitat, Geomorphic Units & Transition Zones from Topography (Invited) <u>J.M. Wheaton</u> ; S.G. Bangen; P. Bailey; N. Bouwes; J.A. McKean
8:00 AM-10:00 AM, 2003 (Moscone West), EP41D. Morphodynamic Characteristics of Non-normal Flow Conditions II	
9:00-9:15 AM (Conflict)	EP41D-05. Validity of the quasi-steady assumption for bed forms under time-varying flows in rivers (Invited) <u>R.L. Martin</u> ; D.J. Jerolmack
8:00 AM-10:00 AM, 3022 (Moscone West), H41L. Biophysical Functions and Process Dynamics in Soil I	
9:00-9:15 AM (Conflict)	H41L-05. The Catchment Isoscape: Theory and Experimental Evidence for the Isotopic Age of Water in a Critical Zone Observatory (Invited) <u>C. Duffy</u> ; E. Thomas; P.L. Sullivan; G. Bhatt; X. Yu
8:00 AM-10:00 AM, 2005 (Moscone West), EP41E. New Concepts in River Mapping and Analysis I	
9:30-9:45 AM (Conflict)	EP41E-07. NEAR-BANK FLOW AND FLOOD INDUCED BANK EROSION PROCESSES REVEALED BY APPLICATION OF ADVANCED ACOUSTIC TECHNIQUES ON A MEGA-RIVER <u>J. Leyland</u> ; D.R. Parsons; S.E. Darby; C.R. Hackney; J. Best; R.E. Aalto; A.P. Nicholas
8:00 AM-10:00 AM, 309 (Moscone South), NH41C. Integrated Approach to the Extreme Natural Hazard Events and Global Environmental Change Assessment I	
9:30-9:45 AM (Conflict)	NH51C-1632. Disaster Risks Reduction for Extreme Natural Hazards <u>H. Plag</u> ; S. Jules-Plag
10:20 AM-12:20 PM, 102 (Moscone South), U42A. Hydrometeorological Research at the Computational Frontier: Data-Intensive Prediction and Social Impact Assessment of Natural Disasters (Virtual Option)	
11:20-11:50 AM	U42A-03. A call for a community strategy to the "Essential Terrestrial Variables" necessary for catchment modeling anywhere in the US (Invited) <u>C. Duffy</u> ; L.N. Leonard
10:20 AM-12:20 PM, 3020 (Moscone West), H42C. Hydrologic Data Assimilation I	
11:50-12:05 PM	H42C-07. Estimating Passive Microwave Brightness Temperature over Snow-covered Land in North America Using a Land Surface Model and a Support Vector Machine <u>B.A. Forman</u> ; R.H. Reichle
1:40 PM-6:00 PM, Hall A-C (Moscone South), A43B. Cloud, Convection, Radiation, Water and Energy Cycles I Posters	

1:40-1:40 PM	A43B-0250. Interactions between clouds and radiation on Arctic present and future climates using CMIP5 models <u>J.M. English</u> ; A. Gettelman; J.E. Kay
1:40 PM-6:00 PM, Hall A-C (Moscone South), EP43B. Fluvial Sediment Budgets: Can We Do Better? III Posters [SWIRL_CU]	
1:40-1:40 PM	EP43B-0850. Experimental Study on Sediment Transport in Meandering Channels <u>D. Chen</u> ; L. He; J. Liu
1:40-1:40 PM	EP43B-0853. A Progressive Black Top Hat Transformation Algorithm for Estimating Valley Volumes from DEM Data <u>W. Luo</u> ; T. Pingel; J. Heo; A.D. Howard
1:40 PM-6:00 PM, Hall A-C (Moscone South), EP43D. Source to Sink: Earth-Surface-Process Connections From Mountains to Margins I Posters	
1:40-1:40 PM	EP43D-0879. Understanding Coupled Earth-Surface Processes through Experiments and Models (<i>Invited</i>) <u>I. Overeem</u> ; W. Kim
1:40-1:40 PM	EP43D-0880. Building a Bridge to Deep Time: Sedimentary Systems Across Timescales <u>B. Romans</u> ; S. Castelltort; J.A. Covault; J.P. Walsh
1:40-1:40 PM	EP43D-0885. Source-To-Sink Perspectives On The Mississippi River System, Miocene To Present, Mountain To Abyss <u>S.J. Bentley</u> ; M.D. Blum
1:40-1:40 PM	EP43D-0887. Humans, Tectonics and Climate, Changing S2S Systems over Time: Waipaoa River Margin Example <u>S.A. Kuehl</u> ; C.R. Alexander; D.R. Corbett; C.K. Harris; A.S. Ogston; A.R. Orpin; J.P. Walsh
1:40-1:40 PM	EP43D-0896. A record of Yarlung-Tsangpo river reorganization since the middle Miocene: evidence for a Himalayan-Tibetan connection <u>K.A. Lang</u> ; K.W. Huntington
1:40-1:40 PM	EP43D-0901. Architecture and Channel-Belt Clustering in the Fluvial lower Wasatch Formation, Uinta Basin, Utah. <u>J.R. Pisel</u> ; D.R. Pyles; B. Bracken; C.D. Rosenbaum
1:40 PM-6:00 PM, Hall A-C (Moscone South), H43A. Groundwater-Surface Water Interactions: Physical, Biological, and Chemical Relevance VI Posters	
1:40-1:40 PM	H43A-1432. Estimates of riparian evapotranspiration using diurnal monitoring of groundwater regime in desert environments <u>P. Wang</u> ; S.P. Pozdniakov; S. Grinevsky; J. Yu
1:40 PM-6:00 PM, Hall A-C (Moscone South), H43B. Impacts of Climatic and Environmental Change on Stream Carbon Loadings Posters	
1:40-1:40 PM	H43B-1440. Redistribution of Carbon During Forest Blowdowns <u>E.E. Wohl</u>

1:40 PM-6:00 PM, Hall A-C (Moscone South), H43H. Transformative Measurements to Understand the Geosphere: Zip-Ties, Arduinos, Novel Sensors, and Twitter Posters	
1:40-1:40 PM	H43H-1574. Inexpensive Open-Source Data Logging in the Field <u>A.D. Wickert</u>
1:40 PM-6:00 PM, Hall A-C (Moscone South), NH43A. Innovations in Tsunami Hazard Analysis, Mitigation, and Preparedness II Posters	
1:40-1:40 PM	NH43A-1735. Time-Reverse Imaging for the Tsunami Source <u>J. Hossen</u> ; P.R. Cummins
1:40 PM-6:00 PM, Hall A-C (Moscone South), PP43A. Miocene Climate II Posters	
1:40-1:40 PM	PP43A-2068. Sea-level and climate forcing of the Sr isotope composition of marginal basins in the late Miocene Mediterranean Basin <u>T.F. Schildgen</u> ; D. Cosentino; G. Frijia; F. Castorina; F.O. Dudas; A. Iadanza; P. Cipollari; A. Caruso; S.A. Bowring; M.R. Strecker
1:40 PM-6:00 PM, Hall A-C (Moscone South), SM43A. Integrating Theories and Observations of the Earth's Inner Magnetosphere IV Posters	
1:40-1:40 PM	SM43A-2262. Comparison of EMIC wave observation and modeling under different geomagnetic activities <u>D. Lee</u> ; E. Kim; H. Kim; J. Johnson; M. Lessard; M.J. Engebretson; H.J. Singer; E. Valeo; C. Phillips
1:40 PM-6:00 PM, Hall A-C (Moscone South), MR43A. Constraints and Uncertainties on the Composition, Structure, and Dynamics of the Earth's Lithosphere, Upper Mantle, and Transition Zone From Multidisciplinary Studies III Posters	
1:40-1:40 PM	MR43A-2364. High Resolution Global Electrical Conductivity Variations in the Earth's Mantle <u>A. Kelbert</u> ; J. Sun; G.D. Egbert
1:40 PM-3:40 PM, 3016 (Moscone West), H43O. Water Resources Management and Policy in a Changing World II: Tackling Water Problems Around the Globe	
1:47-2:02 PM	H43O-01. Averting a Disaster with Groundwater Depletion in India: The General Case of Water Management Principles and Development (<i>Invited</i>) <u>U. Lall</u>
1:40 PM-3:40 PM, 2003 (Moscone West), EP43E. Exploring the Interplay Between Solid Earth Tectonics and Surface Processes From Mountains to the Sea II	
2:10-2:25 PM	EP43E-03. Tectonics, erosion, and climate in the Miocene Mediterranean: a mechanistic approach to the Messinian Salinity Crisis (<i>Invited</i>) <u>D. Garcia-Castellanos</u>
2:55-3:10 PM <u>(Conflict)</u>	EP43E-06. River avulsions in the presence of tectonic tilting, and the Ganges-Brahmaputra Delta <u>M.D. Reitz</u> ; M.S. Steckler; C. Paola; S.L. Goodbred; A.L. Petter; J. Pickering; L.A. Williams

1:40 PM-3:40 PM, 2005 (Moscone West), EP43F. From Grains to Landscapes: Understanding the Links Between Surface Topography, Fluid Mechanics, and Sediment Transport I [SWIRL_CU]	
2:55-3:10 PM (Conflict)	EP43F-06. Turbulence- and particle-resolving model of sediment transport and the formation of bedforms under waves and unidirectional currents <u>M.W. Schmeckle</u> ; J.M. Nelson
3:10-3:25 PM	EP43F-07. Simulation of River Bluffs and Slip-Off Slopes With a Discrete Particle-Based Model <u>S.T. Lancaster</u> ; J.P. Zunka; G.E. Tucker
4:00 PM-6:00 PM, 2005 (Moscone West), EP44B. From Grains to Landscapes: Understanding the Links Between Surface Topography, Fluid Mechanics, and Sediment Transport II [SWIRL_CU]	
4:00-4:15 PM	EP44B-01. The role of probabilistic formulations of sediment transport aimed at describing the behavior of soil-mantled hillslopes over geomorphic timescales (<i>Invited</i>) <u>D.J. Furbish</u> ; J.J. Roering
4:15-4:30 PM	EP44B-02. Are grain packing and flow turbulence the keys to predicting bedload transport in steep streams? (<i>Invited</i>) <u>E. Yager</u> ; A. Monsalve Sepulveda; H.J. Smith; A. Badoux
4:00 PM-6:00 PM, 302 (Moscone South), T44C. Linking Earth Surface Dynamics and Deep Tectonic Processes III	
4:30-4:45 PM	T44C-03. Quantifying landscape evolution response to changes in dynamic topography (<i>Invited</i>) <u>R. Moucha</u> ; G.A. Ruetenik; J. Braun; F. Guillocheau; G.D. Hoke
4:00 PM-6:00 PM, 2003 (Moscone West), EP44A. Exploring the Interplay Between Solid Earth Tectonics and Surface Processes From Mountains to the Sea III	
5:15-5:30 PM	EP44A-06. Feedbacks Between Topographic Stress and Drainage Basin Evolution <u>J. Perron</u> ; S.J. Martel; K. Singha; M.I. Slim
5:30-5:45 PM	EP44A-07. Crustal strength anisotropy influences landscape form and longevity <u>S.G. Roy</u> ; P.O. Koons; P. Upton; G.E. Tucker
5:45-6:00 PM (Conflict)	EP44A-08. Linking Earth and Atmosphere at Higher Frequencies with the Failure Earth Response Model (<i>Invited</i>) <u>P.O. Koons</u> ; P. Upton; S.G. Roy; G.E. Tucker
4:00 PM-6:00 PM, 2005 (Moscone West), EP44B. From Grains to Landscapes: Understanding the Links Between Surface Topography, Fluid Mechanics, and Sediment Transport II [SWIRL_CU]	
5:45-6:00 PM (Conflict)	EP44B-08. Tracer waiting times and the steady-state evolution of a granular bed <u>R.L. Martin</u> ; P.K. Purohit; D.J. Jerolmack
4:00 PM-6:00 PM, 3014 (Moscone West), H44D. Hydrogeophysical Data Integration and Joint Inversion I [SWIRL_CM]	

5:45-6:00 PM <u>(Conflict)</u>	H51G-1284. Hydrogeophysical Cyberinfrastructure For Real-Time Interactive Browser Controlled Monitoring Of Near Surface Hydrology: Results Of A 13 Month Monitoring Effort At The Hanford 300 Area <u>R.J. Versteeg</u> ; T. Johnson; A. Henrie; D. Johnson
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Friday, December 13, 2013

Time	Session Info
8:00 AM-12:20 PM, Hall A-C (Moscone South), B51H. Remote Sensing of Northern High-Latitude Terrestrial and Aquatic Ecosystems II Posters	
8:00-8:00 AM	B51H-0403. Characterization of an Active Thermal Erosion Site, Caribou Creek, Alaska <u>R. Busey</u> ; W.R. Bolton; J.E. Cherry; L.D. Hinzman
8:00 AM-12:20 PM, Hall A-C (Moscone South), EP51A. Numerical Modeling of River Fluxes Under Changing Environmental Conditions I Posters	
8:00-8:00 AM	EP51A-0696. Modeling bed material transport through colonial-age mill dam impoundments, northern Delaware <u>A. Pearson</u> ; J.E. Pizzuto
8:00-8:00 AM	EP51A-0698. Three dimensional numerical modeling of Hydrodynamics and sediment transport in the Mississippi River Diversion at West Bay <u>K.M. Sadid</u> ; E.A. Meselhe; B. Roth; M.A. Allison
8:00-8:00 AM	EP51A-0700. Modeling mud flocculation using variable collision and breakup efficiencies <u>K. Strom</u> ; A. Keyvani
8:00-8:00 AM	EP51A-0704. A probabilistic sediment cascade model of sediment transfer through a mountain basin. <u>G.L. Bennett</u> ; P. Molnar; B.W. McArdeil; S.N. Lane; P. Burlando
8:00 AM-12:20 PM, Hall A-C (Moscone South), EP51B. Using Predictive Models to Inform River Management and Restoration I Posters	
8:00-8:00 AM	EP51B-0711. Estimation of Daily Stream Temperatures in a Mountain River Network <u>M. Sohrabi</u> ; R.M. Benjankar; D. Isaak; S. Wenger; D. Tonina
8:00 AM-12:20 PM, Hall A-C (Moscone South), H51F. Hydrogeophysical Characterization of the Critical Zone II Posters [SWIRL_GS]	
8:00-8:00 AM	H51F-1266. Soil temperature and water dynamics on contrasting aspects in the rain-snow transition zone <u>T.E. Link</u> ; M.S. Seyfried; S. Bryden; J.P. McNamara; P.Z. Klos
8:00 AM-12:20 PM, Hall A-C (Moscone South), H51G. Hydrogeophysical Data Integration and Joint Inversion II Posters [SWIRL_CM]	

8:00-8:00 AM	H51G-1276. Conversion of Highly Complex Faulted Hydrostratigraphic Architectures into MODFLOW Grid for Groundwater Modeling <u>H.V. Pham</u> ; F.T. Tsai
8:00 AM-12:20 PM, Hall A-C (Moscone South), H51K. Large-Scale Field Experimentation and Networks I Posters	
8:00-8:00 AM	H51K-1347. Investigating Snowmelt Infiltration Dynamics in the Western U.S. Using the SNOTEL Network <u>A.A. Harpold</u> ; N.P. Molotch
8:00 AM-10:00 AM, 3014 (Moscone West), H51S. Remote Sensing and Modeling of Groundwater Variability I	
8:00-8:15 AM <u>(Conflict)</u>	H51S-01. Diagnosing scaling behavior of groundwater with a fully-integrated, high resolution hydrologic model simulated over the continental US (Invited) <u>R.M. Maxwell</u> ; L.E. Condon; S.J. Kollet
8:00 AM-10:00 AM, 2010 (Moscone West), IN51C. Adopting Cloud Computing for Environmental Decision Support Systems I [SWIRL_CM]	
8:00-8:15 AM <u>(Conflict)</u>	IN51C-01. Decision Support for Active Water Management (Invited) <u>D.R. Maidment</u> ; F. Salas; B.S. Minsker
8:00 AM-12:20 PM, Hall A-C (Moscone South), P51D. Rapid Environmental Change and the Fate of Planetary Habitability II Posters	
8:00-8:00 AM	P51D-1756. Simulating Fine grained Alluvial Fan Sedimentation on Mars <u>A.M. Morgan</u> ; A.D. Howard; J.M. Moore; R.A. Beyer
8:00 AM-12:20 PM, Hall A-C (Moscone South), T51B. New Frontiers in Asia Pacific Earth Sciences II Posters	
8:00-8:00 AM	T51B-2460. Subsurface Evidence for Late Mesozoic Extension in Western Mongolia: Tectonic and Petroleum Systems Implications <u>C.L. Johnson</u> ; K. Constenius; A. Payton; S.A. Graham; G.N. Mackey
8:00 AM-12:20 PM, Hall A-C (Moscone South), V51D. Volcanic Flow and Magma Properties: Field, Laboratory and Hazard Assessment III Posters (cosponsored by EGU-GMPV and MSA)	
8:00-8:00 AM	V51D-2704. Numerical investigation of the morphological transition of submarine lava flow due to slope change <u>E. Choi</u> ; M. Tominaga; M.G. Baker; D. May; E. Fujita; T. Kozono
8:00 AM-10:00 AM, 3009 (Moscone West), OS51C. From Mountains to the Ocean: Physical, Chemical and Microbial Impacts on Carbon Fluxes I	
8:15-8:30 AM	OS51C-02. The Dynamic Watershed and the Coastal Ocean: Biogeochemical Linkages and Interannual Variability <u>E. Olhsson</u> ; T.M. Powell
8:00 AM-10:00 AM, 2003 (Moscone West), EP51C. Influence of Climate and Climate Variability on Landscape Form and Function II	

8:45-9:00 AM (Conflict)	EP51C-04. High-resolution regional paleoclimate simulations of Lake Bonneville and its influence on geomorphic processes in the Uinta Mountains during the Last Glacial Maximum (<i>Invited</i>) <u>J. Galewsky</u>
8:00 AM-10:00 AM, 2010 (Moscone West), IN51C. Adopting Cloud Computing for Environmental Decision Support Systems I [SWIRL_CM]	
8:45-9:00 AM (Conflict)	IN51C-04. Using the cloud to speed-up calibration of watershed-scale hydrologic models (<i>Invited</i>) <u>J.L. Goodall</u> ; M.B. Ercan; A.M. Castronova; M. Humphrey; N. Beekwilder; J. Steele; I. Kim
8:00 AM-10:00 AM, 2005 (Moscone West), EP51D. Source to Sink: Earth-Surface-Process Connections From Mountains to Margins II	
9:00-9:15 AM	EP51D-05. Sink to source: The effects of offshore dynamics on upstream processes <u>A. Abeyta</u> ; C. Paola; J.B. Swenson
8:00 AM-10:00 AM, 3006 (Moscone West), A51M. New Particle Formation I (cosponsored by AMS)	
9:30-9:45 AM (Conflict)	A51M-07. Photo-chemical reduction of iodate (IO₃⁻) in sea-water leading to the emission of iodine (I₂) in the atmosphere <u>R. Kumar</u>
8:00 AM-10:00 AM, 2005 (Moscone West), EP51D. Source to Sink: Earth-Surface-Process Connections From Mountains to Margins II	
9:30-9:45 AM (Conflict)	EP51D-07. Climate and Tectonics Need Not Apply: Transient Erosion Driven by Drainage Integration, Aravaipa Creek, AZ <u>M. Jungers</u> ; A.M. Heimsath
10:20 AM-12:20 PM, 2005 (Moscone West), EP52B. Source to Sink: Earth-Surface-Process Connections From Mountains to Margins III	
10:20-10:35 AM (Conflict)	EP52B-01. Flood Deposition Patterns and Channel Migration due to a 10-year flood event: the case of the Indus River flood 2010 <u>A.J. Kettner</u> ; J.P. Syvitski; I. Overeem; G.R. Brakenridge
10:20 AM-12:20 PM, 3009 (Moscone West), OS52A. Sediment Transport by Turbidity Currents: Simulation and Observation I (cosponsored by IAS)	
10:20-10:35 AM (Conflict)	OS52A-01. Visualizing the internal structure of subaqueous, high-concentration sediment-laden flows: implication of rheology to flow structure. <u>M.M. Perillo</u> ; J. Buttles; D.C. Mohrig; I. Kane; A. Pontén; D. Brown; B.W. Minton
10:20 AM-12:20 PM, 2003 (Moscone West), EP52A. Influence of Climate and Climate Variability on Landscape Form and Function I	
10:35-10:50 AM	EP52A-02. Solar radiation signature manifested on the spatial patterns of modeled soil moisture, vegetation, and topography using an ecohydro-geomorphic landscape evolution model <u>O. Yetemen</u> ; J.H. Flores Cervantes; E. Istanbuluoglu; E.R. Vivoni

11:05-11:20 AM <u>(Conflict)</u>	EP52A-04. Climatic controls on mechanical rock strength and channel incision due to bedrock weathering, Kohala Peninsula, Hawaii <u>B.P. Murphy</u> ; <u>J.P. Johnson</u> ; <u>N.M. Gasparini</u> ; <u>L.S. Sklar</u>
10:20 AM-12:20 PM, 3009 (Moscone West), OS52A. Sediment Transport by Turbidity Currents: Simulation and Observation I (cosponsored by IAS)	
11:05-11:20 AM <u>(Conflict)</u>	OS52A-04. Insights into the linked dynamics of channel networks on shelf-edge deltas and submarine slopes from physical experiments and high-resolution seismic data <u>A.M. Fernandes</u> ; <u>K.M. Straub</u>
10:20 AM-12:20 PM, 3016 (Moscone West), H52G. Water Resources Management and Policy in a Changing World V: Dealing with Flow and Climate Variability	
11:25-11:40 AM	H52G-05. Assessing Applicability of CMIP5 Climate Projections for Water Resources and Environmental Planning <u>I.M. Ferguson</u> ; <u>L.D. Brekke</u> ; <u>J. Scott</u> ; <u>M.A. Alexander</u>
10:20 AM-12:20 PM, 2022 (Moscone West), SM52A. Decadal Challenges for Solar and Space Physics I (Virtual Option: On-Demand Only)	
11:51-12:03 PM	SM52A-08. A future Chinese mission proposed to investigate the coupling of the Earth's magnetosphere, ionosphere and thermosphere <u>Y. Liu</u> ; <u>C. Wang</u> ; <u>J. Xu</u>
10:20 AM-12:20 PM, 2003 (Moscone West), EP52A. Influence of Climate and Climate Variability on Landscape Form and Function I	
12:05-12:20 PM	EP52A-08. Landscape re-organization under changing climatic forcing <u>A. Singh</u> ; <u>L. Reinhardt</u> ; <u>E. Foufoula-Georgiou</u>
1:40 PM-6:00 PM, Hall A-C (Moscone South), C53A. Hydrological Response to Climate Change in Permafrost Regions II Posters	
1:40-1:40 PM	C53A-0550. Increased Groundwater Upwelling from Changes in Permafrost as a Control on River Ice Thickness <u>C. Jones</u> ; <u>K. Kielland</u> ; <u>L.D. Hinzman</u>
1:40 PM-6:00 PM, Hall A-C (Moscone South), C53B. Modeling of the Cryosphere: Glaciers and Ice Sheets III Posters	
1:40-1:40 PM	C53B-0553. Constitutive Models for Debris-bearing Ice Layers <u>P.L. Moore</u>
1:40 PM-6:00 PM, Hall A-C (Moscone South), EP53A. Earth and Planetary Surface Processes General Contributions Posters	
1:40-1:40 PM	EP53A-0720. Draix multidisciplinary observatory for water and sediment processes <u>C. Le Bouteiller</u> ; <u>N. Mathys</u> ; <u>F. Liébault</u> ; <u>S. Klotz</u>

1:40-1:40 PM	EP53A-0725. BED FORMS MODULATING TEMPORAL PEAKS ON NEAR-BANK SHEAR STRESSES, THE WABASH RIVER CASE <u>J.D. Abad</u> ; C.E. Frias; E.J. Langendoen; J. Best; B.L. Rhoads; K.M. Konsoer; M.H. Garcia
1:40-1:40 PM	EP53A-0737. Recent developments in cosmogenic nuclide production rate scaling <u>N.A. Lifton</u>
1:40-1:40 PM	EP53A-0746. A New Method of Assessing the Extent of Topographic Equilibrium at Different Spatial Scales <u>R. Walcott</u>
1:40-1:40 PM	EP53A-0757. Scaling up debris-flow experiments on a centrifuge <u>C. Hung</u> ; H. Capart; T.J. Crone; E. Grinspum; L. Hsu; D. Kaufman; L. Li; H. Ling; M.D. Reitz; B. Smith; C.P. Stark
1:40-1:40 PM	EP53A-0764. 10-year Field Measurement Program of Post-Wildfire Tree Root Decay, Kootenay National Park, British Columbia <u>Y.E. Martin</u> ; E.A. Johnson; S. Kroeker
1:40-1:40 PM	EP53A-0774. Early Cretaceous continental sedimentation in the Coastal Cordillera (Atajafia Formation), Northern Chile G. Fuentes; <u>M. Garcia</u> ; F. Sepulveda; P. Vasquez
1:40-1:40 PM	EP53A-0775. Thickness of the oligo-neogene sedimentary cover in the Central Depression, northern Chile (Pampa del Tamarugal, 20°45' -21°30'S), based on seismic reflection <u>M. Garcia</u> ; Y. Simicic; E. Contreras Reyes; R. Charrier
1:40-1:40 PM	EP53A-0779. Influence of Shear History on the Growth Rate and Equilibrium Size of Mud Flocs <u>A. Keyvani</u> ; K. Strom
1:40-1:40 PM	EP53A-0786. A multi-resolution analysis of lidar-DTMs to identify geomorphic processes from characteristic topographic length scales <u>H. Sangireddy</u> ; P. Passalacqua; C.P. Stark
1:40 PM-6:00 PM, Hall A-C (Moscone South), EP53B. From Grains to Landscapes: Understanding the Links Between Surface Topography, Fluid Mechanics, and Sediment Transport III Posters [SWIRL_CU]	
1:40-1:40 PM	EP53B-0822. Steady-state unsteadiness: drainage network reorganization triggered by bedrock river meandering in the Oregon Coast Range <u>K.N. Johnson</u> ; N.J. Finnegan
1:40-1:40 PM	EP53B-0824. Mapping bathymetry in a large meandering river above and below a significant sediment input <u>S.A. Kelly</u> ; P. Belmont
1:40-1:40 PM	EP53B-0831. A comparison of hydrology and channel hydraulics in headwater streams of the Central Oregon Cascades <u>L.A. Hempel</u> ; G. Grant; S. Lewis
1:40-1:40 PM	EP53B-0833. Physicochemical effects of temperature and water chemistry on cohesive channel erosion <u>T. Wynn-Thompson</u> ; S. Hoomehr; O. Parks; M. Eick

1:40-1:40 PM	EP53B-0839. Fluid Dynamical Control of Spacing and Symmetry Breaking in Orbital Wave Ripples <u>J. Nienhuis</u> ; J. Perron; J.C. Kao; P. Myrow
1:40 PM-6:00 PM, Hall A-C (Moscone South), EP53C. Influence of Climate and Climate Variability on Landscape Form and Function III Posters	
1:40-1:40 PM	EP53C-0851. Topographic and Genetic Markers of Landscape Change: Landslides and Isolated Fish Populations Demarcating Basin-wide Erosional Waves Above the Cascadia Subduction Zone <u>N.J. Lyons</u> ; K.W. Wegmann; M. Raley
1:40 PM-3:40 PM, 2003 (Moscone West), EP53E. Numerical Modeling of River Fluxes Under Changing Environmental Conditions II	
1:40-1:55 PM (Conflict)	EP53E-01. Morphodynamic modeling of the river pattern continuum <i>(Invited)</i> <u>A.P. Nicholas</u>
1:40 PM-6:00 PM, Hall A-C (Moscone South), H53D. Global Floods: Satellite Observation, Modeling and Socioeconomic Response II Posters [SWIRL_CM]	
1:40-1:40 PM	H53D-1447. Multi-scale Evaluation of a Real Time Multi-satellite Precipitation Forced Global Hydrological Modeling System <u>Y. Zhang</u> ; Y. Hong; H. Gao; X. Xue; J.J. Gourley
1:40 PM-3:40 PM, 3018 (Moscone West), H53I. Chemical, Isotopic, and Chronologic Tracers to Understand the Fate and Transport of Nutrients in Watersheds II	
1:40-1:55 PM (Conflict)	H53I-01. Insights on Biogeochemistry from the Triple Isotope System of Nitrate <i>(Invited)</i> <u>T. Meixner</u> ; G.M. Michalski; N. Dejawahk; K.M. Riha; K.A. Lohse; E.L. Gallo; J.C. McIntosh; P.D. Brooks
1:40 PM-6:00 PM, Hall A-C (Moscone South), P53D. Titan- A Solar System Enigma II Posters	
1:40-1:40 PM	P53D-1892. Orographic forcing of dune forming winds on Titan <u>E.J. Larson</u> ; O.B. Toon; A.J. Friedson
1:40 PM-6:00 PM, Hall A-C (Moscone South), PP53A. Environmental Change in High-Altitude Lakes II Posters	
1:40-1:40 PM	PP53A-1984. High lake levels at Siling Co, central Tibet, during MIS 5e - 6 <u>X. Shi</u> ; E. Kirby; K.P. Furlong; K. Meng; S. Marrero; E. Wang; Y. Asmerom; R.A. Robinson; V.J. Polyak; F.M. Phillips
1:40 PM-3:40 PM, 2003 (Moscone West), EP53E. Numerical Modeling of River Fluxes Under Changing Environmental Conditions II	
1:55-2:10 PM	EP53E-02. New Possibilities in Global Hydrology and Sediment Transport <i>(Invited)</i> <u>J.P. Syvitski</u> ; S. Cohen; A.J. Kettner; G.R. Brakenridge

2:10-2:25 PM	EP53E-03. Towards a consistent modeling framework across scales <u>B. Jagers</u>
2:40-2:55 PM	EP53E-05. A (fast) “precipiton” method to calculate river hydrodynamics with applications to landscape evolution models as well as flood prediction <u>P. Davy</u>
1:40 PM-3:40 PM, 3003 (Moscone West), GC53D. Challenges in Attribution and Assessment of Climate Impacts II	
2:58-3:11 PM <u>(Conflict)</u>	GC53D-07. Rising to the Challenge of Climate Impact Assessment in the Arctic (<i>Invited</i>) <u>L.D. Hinzman</u>
1:40 PM-3:40 PM, 3011 (Moscone West), H53M. Persistent Problems and Modern Approaches in Multiphase Flow in Porous Media: From Pore to Laboratory and Field-Scale II	
3:10-3:25 PM <u>(Conflict)</u>	H53M-07. A Non-classical Hydrostatic Equation for Unsaturated Porous Media <u>J. Wang</u> ; R.L. Bras; T.H. Illangasekare; T. Sakaki; R.L. Detwiler
1:40 PM-3:40 PM, 2003 (Moscone West), EP53E. Numerical Modeling of River Fluxes Under Changing Environmental Conditions II	
3:25-3:40 PM	EP53E-08. A theoretical and field-based study on the formation and shape of fluvial levees <u>D.A. Edmonds</u> ; <u>E.A. Hajek</u>
4:00 PM-6:00 PM, 2003 (Moscone West), EP54A. Using Predictive Models to Inform River Management and Restoration II	
5:35-5:55 PM	EP54A-07. Questioning the Faith – Models and Prediction in Stream Restoration (<i>Invited</i>) <u>P. Wilcock</u>