

Personalized Itinerary Planner

AGU 2011 Fall Meeting
December 05 - 09, 2011

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Monday, December 05, 2011

Time	Session Info
8:00 AM-12:20 PM, Halls A-C (Moscone South), A11A. Aerosol, Cloud Properties, Atmospheric Rivers, and Precipitation in California: CalWater I Posters	
8:00 AM-12:20 PM	A11A-0057. A global atmospheric river climatology as simulated by the Community Atmosphere Model version 5 (CAM5), compared to results from reanalyses. J. Nusbaumer ; D.C. Noone
8:00 AM-12:20 PM, Halls A-C (Moscone South), B11D. Observatory Enabled Science and the Earth System Modeling Era Posters	
8:00 AM-12:20 PM	B11D-0516. The Virtual Watershed Observatory: Cyberinfrastructure for Model-Data Integration and Access (<i>Invited</i>) C. Duffy ; L.N. Leonard ; L. Giles ; G. Bhatt ; X. Yu
8:00 AM-12:20 PM, Halls A-C (Moscone South), ED11A. Bridging the Gap Between Geoscience Education and Careers in the 21st Century: Teaching, Fieldwork, and Student Retention I Posters	
8:00 AM-12:20 PM	ED11A-0761. Modern Process Studies in Kongsfjord, Svalbard: Arctic Geoscience Research Experience for U.S. Undergraduates (Svalbard REU) R.D. Powell ; J. Brigham-Grette
8:00 AM-12:20 PM, Halls A-C (Moscone South), IN11A. Creating Decision Support Products in a Rapidly Changing Environment Posters	
8:00 AM-12:20 PM	IN11A-1267. Extraction of Suspended Sediments from Landsat Imagery in the Northern Gulf of Mexico D.M. Hardin ; M. Drewry ; M.Y. He ; S. Ebersole
8:00 AM-12:20 PM, Halls A-C (Moscone South), IN11B. Current Capabilities and Future Needs of Near Real Time Data I Posters	
8:00 AM-12:20 PM	IN11B-1281. Processing Direct Broadcast Data to Reduce Latency of Aqua AMSR-E Products K. Regner ; H. Conover ; B. Beaumont ; M. Teague ; S.J. Graves ; D.M. Hardin
8:00 AM-10:00 AM, Room 305 (Moscone South), P11G. Planetary Atmospheres and Their Evolution I	
8:00 AM-10:00 AM	P11G-01. A Coupled General Circulation Model of the Archean Earth E.T. Wolf ; O.B. Toon
8:00 AM-10:00 AM, Room 3016 (Moscone West), H11I. Fractures, Fracture Networks, and Fractured Media I: Transport Properties and Alteration Processes	

8:00 AM-10:00 AM	H11I-03. A likely-universal model of fracture density and scaling justified by both data and theory. Consequences for crustal hydro-mechanics <u>P. Davy</u> ; C. Darcel; R. Le Goc; O. Bour
8:00 AM-10:00 AM, Room 302 (Moscone South), ED11D. Climate Literacy: Engaging and Evaluating Public and K-12 Audiences Around Complex and Contentious Earth Systems Science	
8:00 AM-10:00 AM (Conflict)	ED11D-05. How Do We Communicate Both the Knowns and Unknowns of Climate Change? <u>P. Hamilton</u> ; C. Selin; R. Garfinkle
8:00 AM-10:00 AM, Room 2007 (Moscone West), S11C. Active Fault Data as Input for Seismic Hazard Analysis (SHA) I	
8:00 AM-10:00 AM (Conflict)	S11C-05. Building the GEM Faulted Earth database (Invited) <u>N.J. Litchfield</u> ; K.R. Berryman; A. Christophersen; R.F. Thomas; B. Wyss; J. Tarter; M. Pagani; R.S. Stein; C.H. Costa; K.E. Sieh
8:00 AM-10:00 AM, Room 2004 (Moscone West), B11G. Natural Wetlands: Observations and Modeling of Distributions and Methane Dynamic I	
8:00 AM-10:00 AM	B11G-07. Modeling methane emissions from Alaskan Yukon River Basin from 1986 to 2005 by coupling a large-scale hydrological model and a process-based methane model <u>X. Lu</u> ; Q. Zhuang
8:00 AM-10:00 AM, Room 305 (Moscone South), P11G. Planetary Atmospheres and Their Evolution I	
8:00 AM-10:00 AM	P11G-08. The Nitrogen Constraint on Habitability of Planets of Low Mass M-stars <u>F. Tian</u>
10:20 AM-11:50 AM, Room 3011 (Moscone West), C12A. Ongoing Climate Change in the Polar Latitudes as Motivation for a Proposed International Polar Decade I	
10:20 AM-11:50 AM	C12A-01. The IPD and the Need for Sustained Observations and Coordinated Analyses in Polar Regions (Invited) <u>L.D. Hinzman</u>
10:20 AM-12:20 PM, Room 302 (Moscone South), ED12A. Communicating Research, Outreach Activities, and Their Impacts I	
10:20 AM-12:20 PM	ED12A-05. Cool learnings – extending and communicating polar science to students and the community. (Invited) <u>C.E. Tweedie</u>
1:40 PM-6:00 PM, Halls A-C (Moscone South), H13C. Seasonal Effects of Climate Variability and Change on Hydrological and Biogeochemical Processes I Posters	
1:40 PM-6:00 PM	H13C-1236. Combined land use and climate change impact on Surface and Ground water resources in the Rio Cobre and Great River basin, Jamaica <u>S.G. Setegn</u> ; A.M. Melesse; O. Grey; D. Webber

1:40 PM-6:00 PM, Halls A-C (Moscone South), NH13E. Landslide Characterisation and Forecasting: Structural Controls, Field Mapping, Remote Sensing Methodologies, Modelling, and Risk Analysis II Posters	
1:40 PM-6:00 PM	NH13E-1411. Regional Assessment of Storm-triggered Shall Landslide Risks using the SLIDE (SLOpe-Infiltration-Distributed Equilibrium) Model <u>Y. Hong</u> ; D.B. Kirschbaum; H. Fukuoka
1:40 PM-6:00 PM, Halls A-C (Moscone South), PP13A. Cenozoic Climate: From Proxy Reconstructions to Model Assessments I Posters	
1:40 PM-6:00 PM	PP13A-1821. SPECMAP Chronology in 2011 <u>L.A. Hinnov</u> ; S.R. Meyers
1:40 PM-6:00 PM, Halls A-C (Moscone South), MR13A. Lower Mantle Thermal Conductivity: Experiment, Computation, and Implications for Mantle Dynamics I Posters	
1:40 PM-6:00 PM	MR13A-2185. Lattice thermal conductivity: Computations and theory of the high-temperature breakdown of the phonon-gas model <u>T. Sun</u> ; P.B. Allen
1:40 PM-6:00 PM, Halls A-C (Moscone South), T13F. Tectonics, Erosion, and Paleoclimate: Insights from Geochemistry, Paleobiology, Geochronology, and Modeling I Posters	
1:40 PM-6:00 PM	T13F-2481. Fjord erosion, Quaternary sedimentation and isostatic rebound in western Scandinavia <u>P. Steer</u> ; R.S. Huismans; S. Gac; F. Herman
1:40 PM-3:40 PM, Room 305 (Moscone South), P13G. Planetary Radar Investigations: Observations, Theory, Lab Measurements, Field Analogues, and Future Opportunities II	
1:40 PM-3:40 PM	P13G-02. Exploring the topography and structure of Saharan linear dunes: Implications for characterizing dunes on Titan <u>T.G. Farr</u> ; E. Heggy; J. Radebaugh
1:40 PM-3:40 PM, Room 306 (Moscone South), SA13C. Drivers of the Equatorial Ionospheric Climatology, Variability, and Irregularities I	
1:40 PM-3:40 PM	SA13C-05. Determination of the Sharp, Longitudinal Gradients in Equatorial ExB Drift Velocities Associated with the 4-cell, Non-migrating Structures (Invited) <u>D.N. Anderson</u>
1:40 PM-3:40 PM, Room 2006 (Moscone West), B13I. Biogeodynamics and Earth System Sciences II	
1:40 PM-3:40 PM	B13I-07. The Evolution of Volcanic Ocean Islands and Biota (Invited) <u>W.E. Dietrich</u> ; M.E. Power; T. Perron
1:40 PM-3:40 PM, Room 2012 (Moscone West), T13I. Linkages Among Orogenic Processes in Cordilleran Systems II	

1:40 PM-3:40 PM	T13I-08. Deformation, deposition, and surface uplift in the hinterland of the Central Andes, Bolivia <u>A. Leier</u> ; N. McQuarrie; C.N. Garziona; J.M. Eiler
4:00 PM-6:00 PM, Room 3022 (Moscone West), DI14A. Advances in Computational Modelling in Geoscience I	
4:00 PM-6:00 PM	DI14A-01. Keeping it Together: Advanced algorithms and software for magma dynamics (and other coupled multi-physics problems) <i>(Invited)</i> <u>M. Spiegelman</u> ; C.R. Wilson

Tuesday, December 06, 2011

Time	Session Info
8:00 AM-12:20 PM, Halls A-C (Moscone South), C21A. Ice Cores and Paleoclimate Posters	
8:00 AM-12:20 PM	C21A-0460. Refugium for surface life on Snowball Earth in a nearly-enclosed sea? A finite element approach for sea-glacier invasion <u>A.J. Campbell</u> ; E.D. Waddington; S.G. Warren
8:00 AM-12:20 PM, Halls A-C (Moscone South), EP21A. Evaluating Hydrodynamics and Sediment Transport in Lowland Rivers I Posters	
8:00 AM-12:20 PM	EP21A-0651. Will the Atchafalaya River Capture the Lower Mississippi River? <u>D. Edmonds</u>
8:00-8:00 AM	EP21A-0654. Integrated Biogeomorphological Modeling Using Delft3D Q. Ye; <u>B.(. Jagers</u>
8:00-8:00 AM	EP21A-0655. How to Include Steep Bank Retreat in 2D/3D Morphological Models? <u>B.(. Jagers</u> ; A. Spruyt; E. Mosselman
8:00-8:00 AM	EP21A-0658. A New Channel-Resolving Reduced-Complexity Delta Model <u>M. Liang</u> ; V.R. Voller; C. Paola
8:00-8:00 AM	EP21A-0661. Global riverine sediment flux predictions, the WBMsed v2.0 model <u>S. Cohen</u> ; A.J. Kettner; J.P. Syvitski; B. Fekete
8:00 AM-12:20 PM, Halls A-C (Moscone South), EP21B. Fluvial Morphodynamics, Channels Patterns, and Megafans I Posters	
8:00 AM-12:20 PM	EP21B-0671. Self-formed levees and floodplains in an annular flume R. Teske; <u>M.G. Kleinhans</u> ; C. Roosendaal
8:00-8:00 AM	EP21B-0672. Self-formed braid bars in a numerical model F. Schuurman; <u>M.G. Kleinhans</u>
8:00-8:00 AM	EP21B-0675. Numerical Simulation of Sediment Plug Formation in Alluvial Channels <u>A.J. Posner</u> ; J.G. Duan

8:00-8:00 AM	EP21B-0676. Experimental rivers: from braided to meandering by addition of cohesive floodplain material W.M. Van Dijk; W.I. van de Lageweg; <u>M.G. Kleinans</u>
8:00-8:00 AM	EP21B-0685. Reversal in Migration of Gravel-Sand Transition <u>W. Kim</u>
8:00-8:00 AM	EP21B-0694. Hydraulic geometry of meandering, alluvial sand-bed streams: the roles of washload, vegetation and natural bank armoring <u>G. Parker</u> ; E. Eke
8:00-8:00 AM	EP21B-0701. Detached eddy simulation (DES) of turbulence and suspended sediment transport in lateral separation eddies in the Colorado River in Grand Canyon <u>M.W. Schmeeckle</u>
8:00-8:00 AM	EP21B-0704. High Plains Aquifer as Megafans? - Perspective from Spatial Distribution of Hydraulic Conductivity <u>W. Luo</u> ; D.T. Pederson
8:00-8:00 AM	EP21B-0707. From Incised Valleys to Coarse Alluvial Streams - North Shore of Lake Superior, Minnesota <u>D. Cazanagli</u>
8:00 AM-12:20 PM, Halls A-C (Moscone South), H21B. Fractures, Fracture Networks, and Fractured Media IV Posters	
8:00 AM-12:20 PM	H21B-1090. Permeability Evolution of Fractured Anhydrite Caused by Chemical and Mechanical Alteration <u>R.L. Detwiler</u> ; J.E. Elkhoury; P. Ameli
8:00 AM-12:20 PM, Halls A-C (Moscone South), H21F. Remote Sensing Applications in Hydrology V Posters	
8:00 AM-12:20 PM	H21F-1205. SENSITIVITY OF ACTIVE AND PASSIVE MICROWAVE OBSERVATIONS TO SOIL MOISTURE DURING GROWING CORN <u>J. Judge</u> ; A. Monsivais-Huertero; P. Liu; R.D. De Roo; A.W. England; K. Nagarajan
8:00 AM-12:20 PM, Halls A-C (Moscone South), NH21B. Natural Hazards General Contributions Posters	
8:00 AM-12:20 PM	NH21B-1516. Dam-Break Flooding and Structural Damage in a Residential Neighborhood: Performance of a coupled hydrodynamic-damage model <u>B.F. Sanders</u> ; H.A. Gallegos; J.E. Schubert
8:00 AM-12:20 PM, Halls A-C (Moscone South), T21A. Birth, Growth, and Maturity of a Continental Margin: Modeling, Observing, and Interpreting the Evolution of a Margin I Posters	
8:00 AM-12:20 PM	T21A-2318. 3D Numerical Models for Faulting Patterns in Oblique Rifts <u>E. Choi</u> ; W.R. Buck
8:00 AM-10:00 AM, Room 103 (Moscone South), U21C. Data and Information Quality Really Matters in the Era of Predictive and Often Contentious Science I (Video On-Demand)	
8:00 AM-10:00 AM	U21C-03. Prediction uncertainty reflects both data input quality and model software sophistication (Invited) <u>J. Syvitski</u>

8:00 AM-10:00 AM, Room 303 (Moscone South), EP21D. Debris Flows: From Hazard Mitigation to Landscape Evolution I	
8:00 AM-10:00 AM	EP21D-06. Debris Flow Models With Vertical Redistribution <u>J.N. Mcelwaine</u> ; J. Kowalski
8:00 AM-10:00 AM, Room 3016 (Moscone West), H21I. Hydrological, Geomorphological, Biological, and Geochemical Processes in Karst Aquifers I	
8:00 AM-10:00 AM	H21I-07. Coupled Thermo-Hydro-Chemical (THC) Modeling of Hypogene Karst Evolution in a Prototype Mountain Hydrologic System A. Chaudhuri; <u>H. Rajaram</u> ; H.S. Viswanathan; G. Zvyoloski
8:00 AM-10:00 AM, Room 3011 (Moscone West), C21D. Modeling of the Cryosphere I	
8:00 AM-10:00 AM	C21D-08. Nested modeling of high-order ice dynamics in outlet glaciers of the Greenland Ice Sheet <u>S.J. Marshall</u> ; S. Adhikari
10:20 AM-12:20 PM, Room 303 (Moscone South), EP22A. The Physics of Granular and Turbulent Flows in Geomorphology I	
10:20 AM-12:20 PM	EP22A-07. Coupled large eddy simulation and discrete element model of bedload motion D. Furbish; <u>M.W. Schmeeckle</u>
1:40 PM-6:00 PM, Halls A-C (Moscone South), EP23A. Challenges on Scaled Physical Modeling of Sediment Transport I Posters	
1:40 PM-6:00 PM	EP23A-0721. Downscaling discharge variability: how well can daily flow characteristics be predicted based on lower resolution flow data? <u>A.J. Kettner</u> ; I. Overeem; S. Cohen; J. Syvitski
1:40-1:40 PM	EP23A-0724. Co-evolution of bed topography, flow turbulence and sediment transport: insights from a high resolution large-scale experimental study <u>A. Singh</u> ; E. Fofoula
1:40-1:40 PM	EP23A-0727. Reynolds-mediated scale effects on the modeling of turbidity currents <u>J. Imran</u> ; S. Khan; C. Pirmez; G. Parker
1:40 PM-6:00 PM, Halls A-C (Moscone South), EP23B. Predictive Understanding of Coupled Interactions Among Water, Life, and Landforms I Posters	
1:40 PM-6:00 PM	EP23B-0733. Controls of dunefield stabilization rate: dunefield age and sediment supply <u>T.E. Barchyn</u> ; C. Hugenholtz
1:40-1:40 PM	EP23B-0749. Human Amplified Natural Change: An approach for vulnerability assessment and mitigation planning <u>P. Wilcock</u> ; P. Belmont; K.B. Gran
1:40 PM-6:00 PM, Halls A-C (Moscone South), EP23C. Quantifying Geomorphic Processes and Landscape Evolution: Linking Observations and Models I Posters	

1:40 PM-6:00 PM	EP23C-0755. Establishing Denudation Chronology through Weathering Geochronology <u>S.B. Riffel</u> ; P.M. Vasconcelos; K.A. Farley; I.O. Carmo
1:40-1:40 PM	EP23C-0757. Erodibility controls on the vertical and horizontal scalings of topography : a case study in the Himalayas V. Godard; <u>P. Steer</u>
1:40-1:40 PM	EP23C-0766. Integrating Field Measurements and Numerical Modeling to Investigate Gully Network Evolution <u>F.K. Rengers</u> ; G.E. Tucker
1:40-1:40 PM	EP23C-0767. Adding geochemical and isotope tracers to models of hillslope evolution: valuable constraints or monumental headache? <u>S.M. Mudd</u> ; K. Yoo; M.D. Hurst; B.A. Weinman; K. Maher
1:40-1:40 PM	EP23C-0768. Turning rock into saprolite: Linking observations and models of vadose zone dynamics and chemical weathering <u>A.L. Langston</u> ; G.E. Tucker; R.S. Anderson; S.P. Anderson
1:40-1:40 PM	EP23C-0769. Physical and Statistical Diagnostics for Verification of Hillslope Sediment Transport Models <u>V. Ganti</u> ; P. Passalacqua; E. Fofoula
1:40-1:40 PM	EP23C-0774. Lacustrine sediments in Lake Ohau, central South Island, New Zealand – An archive of erosion, earthquakes and paleoclimate since the Late Glacial <u>P. Upton</u> ; M.J. Vandergoes; J. Howarth; R.H. Levy
1:40-1:40 PM	EP23C-0778. Morphodynamic Modeling of Gravel Bed Rivers: a Step -Length Based Approach <u>A. Kasprak</u> ; J.M. Wheaton
1:40 PM-6:00 PM, Halls A-C (Moscone South), H23B. Combining Learnings From Natural Releases of CO₂ for CO₂ Storage: Processes, Impacts, and Scale I Posters	
1:40 PM-6:00 PM	H23B-1258. Diffuse CO₂ Emanations from a Deep Magmatic Source—Multiphase Dynamics, Soil Impacts, and Lessons for Sequestration Monitoring <u>D.A. Stonestrom</u> ; C.A. Werner; M.S. Schulz; J.F. Howle; C.D. Farrar; T.R. Smith; J.D. Rogie
1:40 PM-6:00 PM, Halls A-C (Moscone South), H23D. Computational Sciences and Water Applications in Hydrology and Groundwater Management II Posters	
1:40 PM-6:00 PM	H23D-1295. An Inverse Modeling Plugin for HydroDesktop using the Method of Anchored Distributions (MAD) <u>D.P. Ames</u> ; C. Osorio; M.W. Over; Y. Rubin
1:40 PM-6:00 PM, Halls A-C (Moscone South), H23F. Hydrological, Geomorphological, Biological, and Geochemical Processes in Karst Aquifers II Posters	

1:40 PM-6:00 PM	H23F-1346. Using time-lapse electrical resistivity tomography to visualize conduit-matrix exchange a sink-rise system of a semi-confined karst aquifer <u>S.B. Meyerhoff</u> ; F. Fiebig; R.M. Maxwell; A. Revil; M. Karaoulis; J.B. Martin; W.D. Graham
1:40 PM-6:00 PM, Halls A-C (Moscone South), H23G. Recent Advances in Data Assimilation and Remote Sensing for Land Surface Hydrology II Posters	
1:40 PM-6:00 PM	H23G-1367. Downscaling Satellite-based Passive Microwave Observations Using the Principle of Relevant Information and Auxiliary High Resolution Remote Sensing Products <u>K. Nagarajan</u> ; J. Judge; J. Principe
1:40 PM-6:00 PM, Halls A-C (Moscone South), IN23C. The Really Long Tail of Geochemistry, Geochronology, and Other Sample-Based Data Posters	
1:40 PM-6:00 PM	IN23C-1462. Maximizing data holdings and data documentation with a hierarchical system for sample-based geochemical data <u>L. Hsu</u> ; K.A. Lehnert; J.D. Walker; C. Chan; J. Ash; A.K. Johansson; T.A. Rivera
1:40 PM-6:00 PM, Halls A-C (Moscone South), PA23C. Shapers of the Debate: What Happens to Science in the Hands of Stakeholders II Posters	
1:40 PM-6:00 PM	PA23C-1756. The Science-Policy Link: Stakeholder Reactions to the Uncertainties of Future Sea Level Rise <u>H. Plag</u> ; B. Bye
1:40 PM-3:40 PM, Room 303 (Moscone South), EP23D. The Physics of Granular and Turbulent Flows in Geomorphology II	
1:40 PM-3:40 PM (Conflict)	EP23D-03. Investigating bedload transport at the grain scale (<i>Invited</i>) <u>E. Lajeunesse</u> ; M. Houssais; L. Malverti; F. Charru
1:40 PM-3:40 PM, Room 307 (Moscone South), P23F. The Geophysical and Atmospheric Science of Extrasolar Planets II	
1:40 PM-3:40 PM (Conflict)	P23F-03. Climate destabilization on tidally locked exoplanets <u>E.S. Kite</u> ; E. Gaidos; M. Manga
1:40 PM-3:40 PM, Room 2012 (Moscone West), T23F. Birth, Growth, and Maturity of a Continental Margin: Modeling, Observing, and Interpreting the Evolution of a Margin II	
1:40 PM-3:40 PM	T23F-08. Strain evolution and the relative role of heat and strain rate during continental rupture (<i>Invited</i>) <u>A.D. Huerta</u> ; J. Crane; E. Rheams
4:00 PM-6:00 PM, Room 2011 (Moscone West), T24C. Tectonics, Erosion, and Paleoclimate: Insights from Geochemistry, Paleobiology, Geochronology, and Modeling IV	
4:00 PM-6:00 PM	T24C-03. The Impact of Drainage Reorganization on Cenozoic Topography <u>B.J. Yanites</u> ; T.A. Ehlers
5:00 PM-6:00 PM, Room 104 (Moscone South), C24A. Nye Lecture (Video On-Demand)	

5:00 PM-6:00 PM (Conflict)	C24A-01. We Are All Engineers Now: Delivering Useful Projections Of Sea Level Rise <u>W.T. Pfeffer</u>
4:00 PM-6:00 PM, Room 303 (Moscone South), EP24A. Geophysical Mass Flows: Field Data, Physical Models, and Simulations I	
4:00 PM-6:00 PM (Conflict)	EP24A-05. Variation of deposition depth with slope angle in snow avalanches: Measurements from Vallée de la Sionne (<i>Invited</i>) <u>J.N. Mcelwaine</u> ; B. Sovilla
4:00 PM-6:00 PM, Room 3018 (Moscone West), H24D. Landscape System Response Under Change II	
4:00 PM-6:00 PM (Conflict)	H24D-05. Widespread hillslope gullying on the southeastern Tibetan Plateau: Human or climate-change induced? (<i>Invited</i>) <u>J.D. Pelletier</u> ; J. Quade; R. Goble; M. Aldenderfer
4:00 PM-6:00 PM, Room 2002 (Moscone West), B24C. Rapid Vegetation Shifts in Drylands: An Ecohydrological and Ecogeomorphic Perspective II	
4:00 PM-6:00 PM (Conflict)	B24C-07. Ecohydrologic function and disturbance of desert ephemeral stream channels <u>D. Bedford</u> ; M. Macias; D.M. Miller; A. Newlander; K.S. Perkins; D.R. Sandquist; S. Schwinning
4:00 PM-6:00 PM, Room 3018 (Moscone West), H24D. Landscape System Response Under Change II	
4:00 PM-6:00 PM (Conflict)	H24D-07. Spatial Variations in Carbon Storage along Headwater Fluvial Networks with Differing Valley Geometry (<i>Invited</i>) <u>E.E. Wohl</u> ; K.A. Dwire; L.E. Polvi; N.A. Sutfin; R.A. Bazan

Wednesday, December 07, 2011

Time	Session Info
8:00 AM-12:20 PM, Halls A-C (Moscone South), ED31A. Education General Contributions I Posters	
8:00 AM-12:20 PM	ED31A-0703. INTEGRATING RESEARCH AND EXTENSION FOR THE NSF-REU PROGRAM IN WATER RESOURCES <u>J. Judge</u> ; K. Migliaccio; B. Gao; S. Shukla; R. Ehsani; E. McLamore
8:00 AM-12:20 PM, Halls A-C (Moscone South), EP31A. Climate Change and Landscape Response I Posters	
8:00 AM-12:20 PM	EP31A-0803. Modeling the rate and style of Arctic coastal retreat along the Beaufort Sea, Alaska <u>K.R. Barnhart</u> ; R.S. Anderson; I. Overeem; C.W. Wobus; G.D. Clow; F.E. Urban; A.L. Lewinter; T.P. Stanton

8:00 AM-12:20 PM, Halls A-C (Moscone South), EP31B. Debris Flows: From Hazard Mitigation to Landscape Evolution II Posters	
8:00 AM-12:20 PM	EP31B-0819. Controls on the Erosional Efficiency of Granular Flows <u>S.W. McCoy</u> ; G.E. Tucker
8:00 AM-12:20 PM, Halls A-C (Moscone South), EP31D. Human Societies and Landscape Evolution Since the Last Glacial Maximum I Posters	
8:00 AM-12:20 PM	EP31D-0847. Dynamic Drainage Networks and Discharge Histories in North America over the Last Glacial Cycle: Implications for Geomorphic Change and Early Human Settlement Patterns <u>A.D. Wickert</u> ; R.S. Anderson; J.X. Mitrovica; A.J. Kettner; C.M. Lee
8:00 AM-12:20 PM, Halls A-C (Moscone South), EP31E. The Physics of Granular and Turbulent Flows in Geomorphology III Posters	
8:00 AM-12:20 PM	EP31E-0867. An analytical framework for aeolian saltation <u>M.D. Reitz</u> ; D.J. Jerolmack
8:00 AM-12:20 PM, Halls A-C (Moscone South), G31B. Small Is Beautiful: The Chase for Low Amplitude Signals I Posters	
8:00 AM-12:20 PM	G31B-0965. Using Empirical Orthogonal Functions to Quantify and Predict Small Global and Regional Common Modes of the Global Geodetic Reference Frame <u>H. Plag</u> ; C.W. Kreemer; G. Blewitt; W.C. Hammond
8:00 AM-12:20 PM, Halls A-C (Moscone South), H31A. Landscape System Response Under Change III Posters	
8:00 AM-12:20 PM	H31A-1136. Modelling the future evolution of incised coastal gullies using a coupled terrestrial-coastal landscape evolution model. <u>C.R. Hackney</u> ; S.E. Darby; J. Leyland
8:00 AM-12:20 PM, Halls A-C (Moscone South), H31B. Postwildfire Landscape Response: Thresholds, Connectivity, and Evolving Processes II Posters	
8:00 AM-12:20 PM	H31B-1152. Capturing the Initiation and Spatial Variability of Runoff on Soils Affected by Wildfire D.A. Martin; <u>A.D. Wickert</u> ; J.A. Moody
8:00 AM-10:00 AM, Room 3016 (Moscone West), H31K. Interactions, Feedbacks, and Hydrologic Response to Climate Variability and Change I	
8:00 AM-10:00 AM <u>(Conflict)</u>	H31K-02. A Long-term Reach-Scale Monitoring Network for Riparian Evapotranspiration, Rock Creek, Kansas (<i>Invited</i>) <u>H. Rajaram</u> ; J.A. Solis; D.O. Whittemore; J.J. Butler; E. Reboulet; S. Knobbe; M. Dealy
8:00 AM-9:00 AM, Room 304 (Moscone South), NG31A. Complex Networks in Geosciences I	
8:00 AM-9:00 AM <u>(Conflict)</u>	NG31A-02. "Universal" Recession Curves and their Geomorphological Roots (<i>Invited</i>) <u>M. Marani</u> ; B. Biswal

8:00 AM-10:00 AM, Room 102 (Moscone South), IN31C. Advances in Metadata Generation and Applications for Earth Sciences I	
8:00 AM-10:00 AM	IN31C-05. Model and Interoperability using Meta Data Annotations <i>(Invited)</i> <u>O. David</u>
9:00 AM-10:00 AM, Room 304 (Moscone South), NG31B. Pattern Formation in Earth System Sciences I	
9:00 AM-10:00 AM	NG31B-02. Self-organization of tidal deltas <i>(Invited)</i> <u>S. Fagherazzi</u>
8:00 AM-10:00 AM, Room 104 (Moscone South), U31C. Polydisciplinary Innovation in Water Resources Modeling and Prediction (Video On-Demand)	
8:00 AM-10:00 AM <i>(Conflict)</i>	U31C-07. A Services-Oriented Architecture for Water Observations, Modeling and Visualization <u>D.R. Maidment</u>
8:00 AM-10:00 AM, Room 2005 (Moscone West), H31I. Developing the Science for High Resolution Water Energy Biogeochemical Cycle Modeling I	
8:00 AM-10:00 AM <i>(Conflict)</i>	H31I-07. 'age' of water: a physics based, fully coupled, distributed model for watershed assessment <u>G. Bhatt</u> ; X. Yu; C. Duffy; A. Kemanian; M. Kumar; L.N. Leonard
9:00 AM-10:00 AM, Room 304 (Moscone South), NG31B. Pattern Formation in Earth System Sciences I	
9:00 AM-10:00 AM <i>(Conflict)</i>	NG31B-03. Roughness controls patterns of sediment transport, vegetation and groundwater in a desert dune field <i>(Invited)</i> <u>D.J. Jerolmack</u> ; R.C. Ewing; F. Falcini; R.L. Martin; C. Masteller; C.B. Phillips; M.D. Reitz
8:00 AM-10:00 AM, Room 303 (Moscone South), EP31F. Fluvial Morphodynamics, Channels Patterns, and Megafans II	
8:00 AM-10:00 AM	EP31F-08. Sorting out meandering and braiding: discriminating formative conditions and stratigraphy <i>(Invited)</i> <u>M.G. Kleinhans</u> ; W.I. van de Lageweg; F. Schuurman; W.M. Van Dijk
10:20 AM-12:20 PM, Room 3016 (Moscone West), H32C. Hydrology and Earth Sciences in Developing World Communities I	
10:20 AM-12:20 PM	H32C-02. "Developing" Hydrology or Hydromorphology: A modern research agenda that can inform the trenches <i>(Invited)</i> <u>U. Lall</u>
10:20 AM-12:20 PM, Room 104 (Moscone South), U32A. Coupled Processes in the Arctic System: Feedbacks, Amplification, and Impacts on Midlatitudes I (Video On-Demand)	
10:20 AM-12:20 PM	U32A-06. Toward the Understanding of Water and Land-surface Feedbacks in a Warm Permafrost Environment <u>W.R. Bolton</u> ; L.D. Hinzman

1:40 PM-6:00 PM, Halls A-C (Moscone South), A33D. The Role of Aerosols in the Climate-Cryosphere System I Posters	
1:40 PM-6:00 PM	A33D-0252. Seasonal and inter-annual variability of aerosol optical properties during 2005-2010 over Red Mountain Pass and Impact on the Snow Cover of the San Juan Mountains <u>R.P. Singh</u> ; R. Gautam; T.H. Painter
1:40 PM-6:00 PM, Halls A-C (Moscone South), B33E. Identifying and Quantifying Change in Ecological Systems II Posters	
1:40 PM-6:00 PM	B33E-0506. A population growth model forced by random, episodic disturbances <u>S.D. Peckham</u>
1:40 PM-6:00 PM, Halls A-C (Moscone South), B33F. Interacting Biogeochemical Cycles: Linking Carbon, Water, and Nutrient Fluxes From Organisms to Globe III Posters	
1:40 PM-6:00 PM	B33F-0540. Regional and Global Controls and Potential Significance of Dissolved Silica Retention in Lakes and Reservoirs <u>J. Harrison</u> ; P. Frings; D.J. Conley
1:40 PM-6:00 PM, Halls A-C (Moscone South), C33B. Modeling of the Cryosphere III Posters	
1:40 PM-6:00 PM	C33B-0637. Numerical modeling of the permafrost temperature evolution in Alaska during the 21st century. <u>E.E. Jafarov</u> ; V.E. Romanovsky; S.S. Marchenko
1:40 PM-6:00 PM, Halls A-C (Moscone South), ED33B. Scientist Participation in Science Communication II Posters	
1:40 PM-6:00 PM	ED33B-0779. Let's Talk About Water: Film Screenings as an Entrée to Water Science <u>R.P. Hooper</u> ; L. Lilienfeld; J. Arrigo
1:40 PM-6:00 PM, Halls A-C (Moscone South), EP33A. Coastal Geomorphology and Morphodynamics I Posters	
1:40 PM-6:00 PM	EP33A-0912. Surface adhesion and fine sediment trapping in deltaic wetlands <u>R.C. Littlewood</u> ; T. Witlen; J. Michael; C. Paola
1:40 PM-6:00 PM, Halls A-C (Moscone South), G33B. Mass Transport and Mass Distribution in the Earth System II Posters	
1:40 PM-6:00 PM	G33B-0993. Modeling Earth Deformation from Monsoonal Flooding in Bangladesh using Hydrographic, GPS and GRACE Data <u>M.S. Steckler</u> ; S.L. Nooner; S.H. Akhter; S.K. Chowdhury; S.V. Bettadpur; L. Seeber
1:40 PM-6:00 PM, Halls A-C (Moscone South), GC33B. Regional Climate Impacts 5: Urbanization Dynamics Across a Changing Planet II Posters	

1:40 PM-6:00 PM	GC33B-1080. Remote Sensing of Urban Land Cover/Land Use Change, Surface Thermal Responses, and Potential Meteorological and Climate Change Impacts <u>D.A. Quattrochi</u> ; G. Jedlovec; P.J. Meyer
1:40 PM-6:00 PM, Halls A-C (Moscone South), IN33B. Environmental Monitoring Challenges in Sensor Networks and Hydroinformatics II Posters	
1:40 PM-6:00 PM	IN33B-1468. Incorporating Spatial Support to Improve Interoperability of Shared Water Data <u>R.P. Hooper</u> ; M. Piasecki; D.W. Valentine; I. Zaslavsky; A. Bedig; A. Couch; Y. Choi
1:40 PM-6:00 PM, Halls A-C (Moscone South), NG33C. Pattern Formation in Earth System Sciences II Posters	
1:40 PM-6:00 PM	NG33C-1516. Hierarchical structure of river networks revisited <u>S. Zanardo</u> ; I. Zaliapin; E. Foufoula; W.E. Dietrich; M. Ghil
1:40-1:40 PM	NG33C-1519. Hydrologic Connectivity as a Window into Pattern Conditions and Formation Processes in Aquatic Ecosystems <u>L.G. Larsen</u> ; J. Choi; M.K. Nungesser; J.W. Harvey
1:40-1:40 PM	NG33C-1521. Self-Organized Intermittency (or Destruction) of Shallow Seabed Sorted Patterns <u>A. Murray</u> ; E.B. Goldstein; G. Coco
1:40 PM-6:00 PM, Halls A-C (Moscone South), OS33A. Coastal Response to Sea Level Changes I Posters	
1:40 PM-6:00 PM	OS33A-1631. Impact of Sea Level Rise on the Attenuation of Hurricane Storm Surge by Wetlands in Corpus Christi, TX. <u>C. Ferreira</u> ; J.L. Irish; F. Olivera
1:40-1:40 PM	OS33A-1636. 1,100 years after an earthquake: modification of the earthquake record by submergence, Puget Lowland, Washington State <u>M.E. Arcos</u>
1:40 PM-6:00 PM, Halls A-C (Moscone South), OS33C. Particle Dynamics and Sedimentary Processes in Estuarine and Coastal Environments I Posters	
1:40 PM-6:00 PM	OS33C-1679. Modeling sediment transport processes and residence times in the shallow coastal bay complex of the Virginia Coast Reserve <u>I. SAFAK</u> ; P.L. Wiberg
1:40 PM-6:00 PM, Halls A-C (Moscone South), PA33A. Managing Scarce Water Resources: From Conflict to Cooperation II Posters	
1:40 PM-6:00 PM	PA33A-1818. Water in the Balance: Changing Freshwater Availability as Viewed from Space <u>J.S. Famiglietti</u> ; M. Rodell; K. Voss; S.C. Swenson; D.P. Chambers; M. Lo; J.T. Reager; S. Ho; C. De Linage; R. Matthew
1:40 PM-6:00 PM, Halls A-C (Moscone South), T33A. Alaska Region Tectonic, Sedimentary, and Climatic Processes I Posters	

1:40 PM-6:00 PM	T33A-2371. An Evaluation of Neogene Sedimentation on the Surveyor Fan, Gulf of Alaska: Geochemical, Mineralogical, and Rock Magnetic Provenance Variation in Alaskan Abyssal Plain Sediments <u>J.M. Jaeger</u> ; <u>A.D. Ullrich</u>
1:40 PM-2:40 PM, Room 305 (Moscone South), EP33E. Quantifying Geomorphic Processes and Landscape Evolution: Linking Observations and Models II	
1:40 PM-2:40 PM <u>(Conflict)</u>	EP33E-02. Quantifying Landscape Evolution From Terrestrial LiDAR and Environmental Process Monitoring <u>S. DeLong</u> ; <u>W.M. Henderson</u> ; <u>B.P. Murphy</u> ; <u>I.N. Yokelson</u>
1:40 PM-3:40 PM, Room 3012 (Moscone West), H33K. Threats on Water: Chemical and Isotope Monitoring and Integrated Modeling of Water Quality Across Scale in Ecohydrological Systems I	
1:40 PM-3:40 PM <u>(Conflict)</u>	H33K-02. Accounting for heterogeneity of nutrient dynamics in riverscapes through spatially distributed models (<i>Invited</i>) <u>W.M. Wollheim</u> ; <u>R.J. Stewart</u>
1:40 PM-3:40 PM, Room 303 (Moscone South), EP33D. Fluvial Morphodynamics, Channels Patterns, and Megafans IV	
1:40 PM-3:40 PM <u>(Conflict)</u>	EP33D-03. Hydrodynamic and Morphodynamic indicators in a long tidal river: the Fly River example. <u>A. Canestrelli</u> ; <u>S. Lanzoni</u> ; <u>S. Fagherazzi</u>
1:40 PM-2:40 PM, Room 305 (Moscone South), EP33E. Quantifying Geomorphic Processes and Landscape Evolution: Linking Observations and Models II	
1:40 PM-2:40 PM <u>(Conflict)</u>	EP33E-03. Experimental testing of landscape models (<i>Invited</i>) <u>C. Paola</u>
1:40 PM-3:40 PM, Room 3014 (Moscone West), H33L. Uncertainty Assessment, Optimization, and Sensitivity Analysis in Integrated Hydrologic Modeling as Applications of Hydroinformatics II	
1:40 PM-3:40 PM	H33L-03. The “How” of Environmental Modeling: Toward Enhanced Transparency and Refutability <u>M.C. Hill</u> ; <u>D. Kavetski</u> ; <u>M.P. Clark</u> ; <u>M. Ye</u> ; <u>M. Arabi</u> ; <u>D. Lu</u> ; <u>L. Foglia</u> ; <u>S. Mehl</u>
1:40 PM-3:40 PM, Room 3009 (Moscone West), C33F. Mountain Glaciers and Their Response to Climate I	
1:40 PM-3:40 PM <u>(Conflict)</u>	C33F-04. Subglacial topography and ice volume for western Canadian glaciers from a bed stress model and mass balance fields (<i>Invited</i>) <u>G.K. Clarke</u> ; <u>F.S. Anslow</u> ; <u>A.H. Jarosch</u> ; <u>V. Radic</u> ; <u>B. Menounos</u> ; <u>T. Bolch</u> ; <u>E. Berthier</u>
1:40 PM-2:40 PM, Room 305 (Moscone South), EP33E. Quantifying Geomorphic Processes and Landscape Evolution: Linking Observations and Models II	

1:40 PM-2:40 PM (Conflict)	EP33E-04. Experimental insights on the effects of varying discharge on fluvial landscape evolution W.I. van de Lageweg; W.M. Van Dijk; M.G. Kleinhans
1:40 PM-3:40 PM, Room 2006 (Moscone West), B33L. Understanding Early Neoproterozoic Transitions I	
1:40 PM-3:40 PM	B33L-05. Modelling the carbon cycle though Neoproterozoic Earth system changes (Invited) C.J. Bjerrum; D.E. Canfield
1:40 PM-3:40 PM, Room 102 (Moscone South), IN33E. Semantic, Linked Data, and Drupal-Based Solutions for Science II	
1:40 PM-3:40 PM	IN33E-07. Collaboration Portals for NASA's Airborne Field Campaigns (Invited) H. Conover; A. Kulkarni; M. Garrett; M. Goodman; W.A. Petersen; M. Drewry; <u>D.M. Hardin</u> ; M. He
4:00 PM-5:00 PM, Room 305 (Moscone South), P34B. Nanocrystalline Materials on Earth and Mars II	
4:00 PM-5:00 PM	P34B-02. Secondary minerals and regolith profiles in basaltic rocks in northeastern US and in Svalbard, an Arctic Mars analogue site (Invited) S.L. Brantley; T.A. Yesavage; E. Bazilevskaya
4:00 PM-6:00 PM, Room 103 (Moscone South), NG34A. Scaling and Fractals After Mandelbrot: On the Frontiers of the Geosciences I (Video On-Demand)	
4:00 PM-6:00 PM	NG34A-03. Scaling Properties of Shoreline Change: Process Implications (Invited) A. Murray; E. Lazarus; A.D. Ashton; S.F. Tebbens; S.M. Burroughs
4:00 PM-6:00 PM, Room 3009 (Moscone West), C34A. Alaska and British Columbia Glaciers: A Glaciological Update I	
4:00 PM-6:00 PM	C34A-04. Projections of the climate-forced deglaciation of western Canada using a regional glaciation model (Invited) G.K. Clarke; F.S. Anslow; A.H. Jarosch; V. Radic
4:00 PM-6:00 PM, Room 2006 (Moscone West), B34A. Connecting the Landscape to Aquatic Ecosystems: Linking Watershed Models and Ecosystem Services II	
4:00 PM-6:00 PM	B34A-05. CLIMATE IMPACTS ON RESERVOIR OPERATIONS FOR FISH SUSTAINABILITY ON THE SACRAMENTO RIVER L. Saito; R.J. Caldwell; B. Rajagopalan
4:00 PM-6:00 PM, Room 2004 (Moscone West), B34D. Improving Predictions of the Global Carbon Cycle and Climate in Earth System Models: New Mechanisms, Feedback Sensitivities, and Approaches for Model Benchmarking III	

4:00 PM-6:00 PM	B34D-06. Multi-Scale Synthesis and Terrestrial Model Intercomparison Project – A Systematic Approach for Evaluating Land -Atmosphere Flux Estimates (<i>Invited</i>) <u>D.N. Huntzinger</u> ; W.M. Post; K.M. Schaefer; A.R. Jacobson; C.R. Schwalm; R.B. Cook; A.M. Michalak
4:00 PM-6:00 PM, Room 3003 (Moscone West), GC34B. Regional Climate Impacts 6: Dynamics of Climate Change and Their Impacts on the Hydrological Cycle at Regional Scales	
4:00 PM-6:00 PM	GC34B-08. Accelerating the Development of Land Surface Hydrological Modeling to Address Societal Needs: Application of an Integrated Data and Modeling Framework to California (<i>Invited</i>) <u>J.S. Famiglietti</u> ; M. Lo; H. Kim; J. Edman; B.F. Sanders; S. Castle; Z. Liu; N.L. Miller; R.S. Singh; D.W. Valentine; I. Zaslavsky

Thursday, December 08, 2011

Time	Session Info
8:00 AM-12:20 PM, Halls A-C (Moscone South), A41D. Orographic Precipitation: Measurement, Mechanisms, and Impact on Landforms Posters	
8:00 AM-12:20 PM	A41D-0115. Connecting hydrology and suspended sediment transport with precipitation in the Nepal Himalayas (<i>Invited</i>) <u>C. Andermann</u> ; S. Bonnet; A. Crave; P. Davy; R. Gloaguen; L. Longuevergne
8:00-8:00 AM	A41D-0119. Mountain growth, orographic precipitation, and the formation of high-plateaus. Insights from numerical modeling experiments (<i>Invited</i>) <u>D. Garcia-Castellanos</u>
8:00 AM-12:20 PM, Halls A-C (Moscone South), EP41D. The Long Road To Flat: Toward Understanding the Drivers and Quantifying Change in Orogens I Posters	
8:00 AM-12:20 PM	EP41D-0637. A Simple Model for the Post-Orogenic Evolution of Mountain Ranges and Foreland Basins P. Van Der Beek; <u>G.E. Tucker</u>
8:00-8:00 AM	EP41D-0648. Reconciling Geodetic Deformation and Long-term Exhumation Rates Across the Western Greater Caucasus <u>B. Avdeev</u> ; N.A. Niemi
8:00 AM-12:20 PM, Halls A-C (Moscone South), GC41C. Regional Climate Impacts 7: Environmental, Socioeconomic, and Climatic Changes in Northern Eurasia and Their Feedbacks to the Global Earth System---The Role of Remote Sensing and Integrative Studies I Posters	
8:00 AM-12:20 PM	GC41C-0840. Prediction And Predictability Of Trend In Temperature Change In China Using Bayesian Multimodel Ensemble Approach <u>C. Miao</u> ; Q. Duan
8:00 AM-12:20 PM, Halls A-C (Moscone South), GC41D. Weather-Driven Renewable Energy I Posters	

8:00 AM-12:20 PM	GC41D-0859. Applying land surface – atmosphere interactions to improving wind energy forecasting systems <u>J.L. Williams</u> ; R.M. Maxwell; L. Delle Monache; J.K. Lundquist
8:00 AM-12:20 PM, Halls A-C (Moscone South), H41C. Developing the Science for High Resolution Water Energy Biogeochemical Cycle Modeling II Posters	
8:00 AM-12:20 PM	H41C-1040. How Much Do Initial Conditions Really Matter? Effects of Model Spin-Up on Coupled Groundwater–Surface Water Simulations <u>I.M. Ferguson</u> ; R.M. Maxwell
8:00 AM-10:00 AM, Room 3012 (Moscone West), H41I. Advances in Hydrometeorological Predictions and Applications I	
8:00 AM-10:00 AM	H41I-01. A Comparison of Statistical and Dynamical Downscaling of Winter Precipitation Over Complex Terrain <u>E.D. Gutmann</u> ; R. Rasmussen; C. Liu; K. Ikeda; D.J. Gochis; M.P. Clark; J. Dudhia; G. Thompson
8:00 AM-10:00 AM, Room 3011 (Moscone West), C41F. Cryosphere-Atmosphere Energy Exchanges: Advances in Modeling and Observation I	
8:00 AM-10:00 AM <u>(Conflict)</u>	C41F-06. An Improved Fractional Snow Covered Area Parameterization for the Community Land Model and its Effects on Simulated Climate. <u>S.C. Swenson</u> ; D.M. Lawrence
8:00 AM-10:00 AM, Room 3009 (Moscone West), C41G. Glacier Surging and Ice Streaming: Fast Flow and Instabilities II	
8:00 AM-10:00 AM <u>(Conflict)</u>	C41G-06. Surface and Subglacial Measurements of a “Spring Event” at Engabreen, Norway <u>P.L. Moore</u> ; K.A. Christianson; N.R. Iverson; J. Winberry; D.O. Cohen; S. Anandakrishnan; M. Jackson
8:00 AM-10:00 AM, Room 303 (Moscone South), EP41E. Challenges on Scaled Physical Modeling of Sediment Transport II	
8:00 AM-10:00 AM <u>(Conflict)</u>	EP41E-05. Scaling of Turbidity Currents and Riverine Flows for Laboratory Experiments: similarities and differences <i>(Invited)</i> <u>M.H. Garcia</u>
9:40-10:00 AM	EP41E-06. Unscaled experiments in morphodynamics <i>(Invited)</i> <u>C. Paola</u>
10:20 AM-12:20 PM, Room 103 (Moscone South), EP42A. Sharp Lecture (Video On-Demand)	
10:20 AM-12:20 PM <u>(Conflict)</u>	EP42A-01. Patterns and processes in landscapes: Surprises from Earth and beyond <i>(Invited)</i> <u>T. Perron</u>

10:20 AM-12:20 PM, Room 3020 (Moscone West), H42B. Evapotranspiration: Land-Atmosphere interactions and Transport in the ABL III	
10:20 AM-12:20 PM (Conflict)	H42B-01. Remotely-Sensed Estimates of Regional and Global Evaporation and Latent Heating (<i>Invited</i>) <u>J.S. Famiglietti</u> ; C.A. Clayson; E.F. Wood
10:20 AM-12:20 PM, Room 3010 (Moscone West), H42D. Freshwater, Ecosystem, and Agriculture Sustainability Under Climate and Land Use Change I	
10:20 AM-12:20 PM (Conflict)	H42D-01. The water-energy-food-climate-economics nexus: solving hunger and resource scarcity (<i>Invited</i>) <u>U. Lall</u>
10:20 AM-12:20 PM, Room 2018 (Moscone West), H42G. The Past, Present, and Future of Global and Regional Droughts I	
10:20 AM-12:20 PM	H42G-08. Tree-Ring Extension of Precipitation Variability for Eastern Nevada: Implications for Drought Analysis in the Great Basin Region, USA <u>F. Biondi</u> ; S.D. Strachan
1:40 PM-6:00 PM, Halls A-C (Moscone South), B43F. Understanding Terrestrial Ecosystem Carbon Fluxes, Structure, and Dynamics by Model Data Syntheses Across Space and Time I Posters	
1:40 PM-6:00 PM	B43F-0360. Regional Eco-hydrologic Sensitivity to Projected Amazonian Land Use Scenarios <u>R.G. Knox</u> ; M. Longo; K. Zhang; N.M. Levine; P.R. Moorcroft; R.L. Bras
1:40 PM-6:00 PM, Halls A-C (Moscone South), ED43B. Impacts of Over a Decade of CAREER Awards IV Posters	
1:40 PM-6:00 PM	ED43B-0553. Computing in Hydraulic Engineering Education <u>J.G. Duan</u>
1:40-1:40 PM	ED43B-0569. Using sediment transport and river restoration to link research and education, and promote K-12 female involvement in STEM fields <u>E.M. Yager</u> ; K. Bradley-Eitel
1:40 PM-6:00 PM, Halls A-C (Moscone South), EP43A. Earth and Planetary Surface Processes: Planetary, Glacial, and Miscellaneous I Posters	
1:40 PM-6:00 PM	EP43A-0660. A Hamiltonian model of landscape evolution <u>C.P. Stark</u>
1:40 PM-6:00 PM, Halls A-C (Moscone South), EP43B. Earth and Planetary Surface Processes: Rivers, Sediment, Hydraulics II Posters	
1:40 PM-6:00 PM	EP43B-0687. Internal Process Time-Scales During Development Of Experimental Alluvial Fans Under Different Discharges, Basin Slopes, And Sediment Feed Rates. <u>K.B. Strom</u> ; P. Hamilton; D.C. Hoyal

1:40-1:40 PM	EP43B-0693. The real cause of the suspended sediment transport - river discharge hysteresis loop, in the Nepal Himalayas <u>C. Andermann</u> ; S. Bonnet; A. Crave; P. Davy; R. Gloaguen; L. Longuevergne
1:40 PM-6:00 PM, Halls A-C (Moscone South), EP43C. Earth and Planetary Surface Processes: Hillslope, Tectonic, and Weathering III Posters	
1:40 PM-6:00 PM	EP43C-0700. Modelling effects of tree population dynamics, tree throw and pit-mound formation/diffusion on microtopography over time in different forest settings <u>Y.E. Martin</u> ; E.A. Johnson; J. Gallaway; O. Chaikina
1:40 PM-3:40 PM, Room 303 (Moscone South), EP43D. Quantifying Geomorphic Processes and Landscape Evolution: Linking Observations and Models III	
1:40 PM-3:40 PM	EP43D-01. Modeling fluxes and form in landslide-prone terrain (<i>Invited</i>) <u>J.J. Roering</u> ; A.M. Booth; J.D. Stock
1:40 PM-6:00 PM, Halls A-C (Moscone South), GC43D. Sea Level Change I Posters	
1:40 PM-6:00 PM	GC43D-0968. On Early Holocene Ice-Sheet/Sea-Level Interactions <u>T.E. Tornqvist</u> ; M. Hijma
1:40 PM-6:00 PM, Halls A-C (Moscone South), H43C. Global Precipitation Measurement, Validation, and Applications III Posters	
1:40 PM-6:00 PM	H43C-1222. Toward the Estimation of High-Resolution Daily Precipitation in Complex Regions – The Study of Intertwined Physiographic, Vegetative, and Climatologic Factors for PRISM Enhancement <u>C. Hsu</u> ; R. Cifelli; R.J. Zamora; L.E. Johnson
1:40 PM-6:00 PM, Halls A-C (Moscone South), P43C. Using the Earth as a Guide to Extraterrestrial Planetary Surfaces II Posters	
1:40 PM-6:00 PM	P43C-1692. Insights from experimental groundwater sapping channels for early Martian hydrological conditions W.A. Marra; D.A. Wesselman; W.J. Poos; <u>M.G. Kleinhans</u>
1:40 PM-6:00 PM, Halls A-C (Moscone South), T43E. Formation and Deformation of the Mediterranean Basins, Margins, and Arcs I Posters	
1:40 PM-6:00 PM	T43E-2421. Drilling below the salt in the Western Mediterranean Sea: the GOLD project <u>M. Rabineau</u> ; A.W. Droxler; J. Kuroda; N. Eguchi; D. Aslanian; K. Alain; C. Gorini
1:40 PM-3:40 PM, Room 3005 (Moscone West), OS43D. Coastal Response to Sea Level Changes II	
1:40 PM-3:40 PM	OS43D-05. Characteristic Timescales of Shoreface Response to Sea-Level Rise <u>A.D. Ashton</u> ; A. Ortiz; P. Lane; J.P. Donnelly

1:40 PM-3:40 PM, Room 303 (Moscone South), EP43D. Quantifying Geomorphic Processes and Landscape Evolution: Linking Observations and Models III	
1:40 PM-3:40 PM	EP43D-06. Spatial variation of glacial erosion rates in the St. Elias range, Alaska, inferred from a realistic model of glacier dynamics <u>R.M. Headley</u> ; B. Hallet; G. Roe; E.D. Waddington
3:10-3:25 PM	EP43D-07. Constraints on the uplift history of the Bolivian Andes from channel profile morphology and numerical modeling. (Invited) <u>N.M. Gasparini</u> ; K.X. Whipple
3:25-3:40 PM	EP43D-08. Using Neighborhood-Algorithm Inversion to Test and Calibrate Landscape Evolution Models <u>M.C. Perignon</u> ; G.E. Tucker; P. Van Der Beek; G.E. Hilley; R. Arrowsmith
4:00 PM-6:00 PM, Room 301 (Moscone South), EP44A. Evaluating Hydrodynamics and Sediment Transport in Lowland Rivers II	
4:00 PM-6:00 PM (Conflict)	EP44A-02. Evolution and stability of tidal river bifurcations (Invited) <u>M.G. Kleinhans</u>
4:00 PM-6:00 PM, Room 303 (Moscone South), EP44B. Quantifying Geomorphic Processes and Landscape Evolution: Linking Observations and Models IV	
4:00 PM-6:00 PM (Conflict)	EP44B-02. Of Rock Damage and the Regolith Conveyor Belt: A Geomorphologist's View of the Critical Zone <u>R.S. Anderson</u> ; S.P. Anderson; G.E. Tucker
4:00 PM-6:00 PM, Room 3014 (Moscone West), H44C. Fate and Transport of Emerging Contaminants, Microorganisms, Colloids, and Engineered Nanoparticles in the Environment II	
4:00 PM-6:00 PM (Conflict)	H44C-02. Mathematical Modeling of the Subsurface Behavior of Quantum Dot Nanoparticles in the Presence of Stabilizing Polymers <u>M.D. Becker</u> ; Y. Wang; K.D. Pennell; L.M. Abriola
4:00 PM-6:00 PM, Room 301 (Moscone South), EP44A. Evaluating Hydrodynamics and Sediment Transport in Lowland Rivers II	
4:00 PM-6:00 PM (Conflict)	EP44A-05. Transient response of sand bedforms to changes in flow <u>R.L. Martin</u> ; D.J. Jerolmack
4:00 PM-6:00 PM, Room 3020 (Moscone West), H44F. Moving Towards a Unified Threshold-based Hydrological Theory I	
4:00 PM-6:00 PM (Conflict)	H44F-05. Thresholds in vegetation responses to drought: Implications for rainfall-runoff modeling <u>C. Tague</u> ; A.L. Dugger
5:15-5:30 PM	H44F-06. Thresholds in Xeric Hydrology and Biogeochemistry (Invited) <u>T. Meixner</u> ; P.D. Brooks; S.C. Simpson; C.D. Soto; F. Yuan; D. Turner; H. Richter

4:00 PM-6:00 PM, Room 301 (Moscone South), EP44A. Evaluating Hydrodynamics and Sediment Transport in Lowland Rivers II	
4:00 PM-6:00 PM <u>(Conflict)</u>	EP44A-07. Hydrographic and suspended sediment measurements of the Mississippi River plume during the historic 2011 flood: a coupled satellite analysis and boat survey approach to determine an efficiency factor for sediment trapping in the nearshore zone. F. Falcini; C. Li; M. D'Emidio; C. Lutken; L. Macelloni; A. Salusti; D.J. Jerolmack
4:00 PM-6:00 PM, Room 3020 (Moscone West), H44F. Moving Towards a Unified Threshold-based Hydrological Theory I	
4:00 PM-6:00 PM <u>(Conflict)</u>	H44F-07. A Framework for Quantifying and Understanding the Type of Topographic Dependence and Degree of Time-Instability in Catchment-Scale Soil Moisture Patterns J.D. Niemann; M.L. Coleman
4:00 PM-6:00 PM, Room 3007 (Moscone West), OS44B. Particle Dynamics and Sedimentary Processes in Estuarine and Coastal Environments II	
4:00 PM-6:00 PM	OS44B-08. Contrasts in Sediment Delivery and Dispersal from River Mouth to Accumulation Zones in High Sediment Load Systems: Fly River, Papua New Guinea and Waipaoa River, New Zealand <u>A.S. Ogston</u> ; J.P. Walsh; R.P. Hale

Friday, December 09, 2011

Time	Session Info
8:00 AM-12:20 PM, Halls A-C (Moscone South), IN51B. Data Management Strategies for Airborne Science Data Posters	
8:00 AM-12:20 PM	IN51B-1578. Pre-Mission, Mission and Post Mission Data Management for NASA Field Campaigns M. He; M. Goodman; M. Drewry; S.J. Graves; <u>D.M. Hardin</u>
8:00 AM-12:20 PM, Halls A-C (Moscone South), PP51C. Reconstruction and Modeling of Global Climate Evolution of the Last 21,000 Years I Posters	
8:00 AM-12:20 PM	PP51C-1868. Late Glacial and Holocene Fire History From Radiocarbon Dating of Charcoal in Valley-Bottom Sediments in Small Watersheds of the Oregon Coast Range <u>S.T. Lancaster</u> ; W.T. Frueh
8:00 AM-12:20 PM, Halls A-C (Moscone South), SA51D. Using Ground Magnetometer Arrays for Studies of Currents of the Ionosphere and Inner Magnetosphere II Posters	
8:00 AM-12:20 PM	SA51D-1982. Magnetometer-inferred, Equatorial, Daytime Vertical ExB Drift Velocities Observed in the African Longitude Sector <u>D.N. Anderson</u> ; E. Yizengaw

8:00 AM-10:00 AM, Room 305 (Moscone South), EP51D. Coastal Geomorphology and Morphodynamics II	
8:00 AM-10:00 AM	EP51D-02. A Coupled Economic and Physical Model of Coastal Adaptation and Abandonment: Are human occupied coastlines a bubble waiting to burst? (<i>Invited</i>) <u>D. McNamara</u> ; A. Keeler
8:00 AM-10:00 AM, Room 301 (Moscone South), EP51C. Climate Change and Landscape Response II	
8:00 AM-10:00 AM	EP51C-04. Climate change and mountain-front morphology: Estimating Late Glacial to Holocene erosion rates from the shape of fault-bounded hillslopes <u>G.E. Tucker</u> ; S.W. McCoy; A.C. Whittaker; G. Roberts; S.T. Lancaster; R.J. Phillips
8:00 AM-10:00 AM, Room 303 (Moscone South), EP51E. High-Resolution Spatial Data Processing, Analysis, and Visualization: Emerging Techniques and Applications II	
8:00 AM-10:00 AM	EP51E-05. Distinguishing grass from ground using LiDAR: Techniques and applications <u>J.D. Pelletier</u> ; T. Swetnam; S.A. Papuga; K. Nelson; P.D. Brooks; A.A. Harpold; J. Chorover
8:00 AM-10:00 AM, Room 305 (Moscone South), EP51D. Coastal Geomorphology and Morphodynamics II	
8:00 AM-10:00 AM	EP51D-07. Investigating the Geomorphic Behavior of the Cape Canaveral Coast Through High-Resolution Beach Monitoring, Sediment Analysis, Oceanographic Observations, and Numerical Modeling <u>P.N. Adams</u> ; <u>J.M. Jaeger</u> ; R.A. MacKenzie; S.W. Kline; B.J. Maibauer; N.G. Plant; M.B. Gravens; T.P. Pierro; J. Shaffer
10:20 AM-12:20 PM, Room 301 (Moscone South), EP52A. Climate Change and Landscape Response III	
10:20 AM-12:20 PM <u>(Conflict)</u>	EP52A-01. Transient bedrock channel evolution across a precipitation gradient: A case study from Kohala, Hawaii. (<i>Invited</i>) <u>N.M. Gasparini</u> ; J. Han; J.P. Johnson; J.A. Menking
10:20 AM-12:20 PM, Room 305 (Moscone South), EP52B. Coastal Geomorphology and Morphodynamics III	
10:20 AM-12:20 PM <u>(Conflict)</u>	EP52B-01. Biogeomorphology of tidal landforms: physical and biological processes shaping the tidal landscape (<i>Invited</i>) <u>M. Marani</u> ; A. D'Alpaos; C. Da Lio
10:20 AM-12:20 PM, Room 301 (Moscone South), EP52A. Climate Change and Landscape Response III	
10:20 AM-12:20 PM <u>(Conflict)</u>	EP52A-02. Modeling the Glacial-Interglacial Impact of the Pacific Trade Wind Inversion on the Geomorphology and Hydrology of the Big Island of Hawaii <u>D. Ward</u> ; J. Galewsky

10:20 AM-12:20 PM, Room 305 (Moscone South), EP52B. Coastal Geomorphology and Morphodynamics III	
10:20 AM-12:20 PM (Conflict)	EP52B-02. Hydrodynamic and suspended sediment transport controls on river mouth morphology (<i>Invited</i>) F. Falcini ; A. Piliouras; D.J. Jerolmack; J.C. Rowland; C. Paola
10:20 AM-12:20 PM, Room 303 (Moscone South), EP52C. High-Resolution Spatial Data Processing, Analysis, and Visualization: Emerging Techniques and Applications III	
10:20 AM-12:20 PM	EP52C-03. Quantifying temporal and spatial scales and patterns in experiments (<i>Invited</i>) M.D. Reitz ; E. Lajeunesse; A. Limare; O. Devauchelle; F. Metivier; D.J. Jerolmack
10:20 AM-12:20 PM, Room 301 (Moscone South), EP52A. Climate Change and Landscape Response III	
10:20 AM-12:20 PM	EP52A-04. The Impact of Vegetation on the Long-term Landform Evolution of the Chilean Coastal Ranges R. Walcott ; T. Dunai
10:20 AM-12:20 PM, Room 2006 (Moscone West), G52A. Reference Systems, Data, and Models for Global Geodesy I	
10:20 AM-12:20 PM	G52A-06. Facilitating Joint Analysis of Data from Several Systems Using Geophysical Models (<i>Invited</i>) H. Plag ; W.C. Hammond; G. Blewitt
10:20 AM-12:20 PM, Room 301 (Moscone South), EP52A. Climate Change and Landscape Response III	
10:20 AM-12:20 PM (Conflict)	EP52A-07. Why do mountain river meanders reflect typhoon climatology? (<i>Invited</i>) C.P. Stark
10:20 AM-12:20 PM, Room 305 (Moscone South), EP52B. Coastal Geomorphology and Morphodynamics III	
10:20 AM-12:20 PM (Conflict)	EP52B-07. Turning the tide: experimental creation of tidal channel networks and ebb deltas R. Terwisscha van Scheltinga; M.G. Kleinhans ; A. Baar; M. Van Der Vegt; H. Markies
1:40 PM-6:00 PM, Halls A-C (Moscone South), A53A. Aerosol Properties and Their Relevance to Climate Processes: Techniques, Laboratory and Field Observations, and Modeling IV Posters	
1:40 PM-6:00 PM	A53A-0304. Implications of Meteoritic Dust In The Upper Stratosphere R.R. Neely ; J.M. English; O.B. Toon; S. Solomon; M.J. Mills; J.P. Thayer
1:40 PM-6:00 PM, Halls A-C (Moscone South), H53E. Imbalance of Water in Nature Posters	
1:40 PM-6:00 PM	H53E-1460. Imbalance in the Hydrologic Cycle—Open Systems, Ebbs and Flows, and Multi-Stable States (<i>Invited</i>) D.A. Stonestrom

1:40 PM-6:00 PM, Halls A-C (Moscone South), H53K. Water Quality in River Systems II Posters	
1:40 PM-6:00 PM	H53K-1563. A Stochastic Approach to Vertical Dispersion of Coarse Sediments in Turbulent Open-Channel Flows <u>D. Chen</u> ; H. Sun; Y. Zhang
1:40 PM-3:40 PM, Room 3014 (Moscone West), H53P. Riparian and Stream Network Processes Across Hydrologic Regimes II	
1:40 PM-3:40 PM	H53P-01. Dry and Drier: Ecological Implications of Hydrologic and Geomorphic Differences among Perennial, Intermittent, and Ephemeral Streams (Invited) <u>E.E. Wohl</u>
1:40 PM-3:40 PM, Room 3016 (Moscone West), H53O. Recent Advances in Remote Sensing and Modeling in Rivers and Streams for Understanding and Predicting Riverine Dynamics II	
1:40 PM-3:40 PM	H53O-02. The fusion of terrestrial laser scanning and optical bathymetric mapping to monitor braided river morphodynamics <u>R.D. Williams</u> ; J. Brasington; D. Vericat; M. Hicks
1:40 PM-3:40 PM, Room 303 (Moscone South), EP53A. From Rock to Clay: Evolution of Grain-Size Distributions in Geomorphic Systems II	
1:40 PM-3:40 PM	EP53A-03. Sorting out abrasion in a gypsum dune field (Invited) <u>D.J. Jerolmack</u> ; M.D. Reitz; R.L. Martin
2:25-2:40 PM	EP53A-04. A PROCESS-BASED MODEL FOR THE EVOLUTION OF A GRAIN-SIZE DISTRIBUTION <u>C. Le Bouteiller</u> ; F. Naaim; N. Mathys
1:40 PM-3:40 PM, Room 3020 (Moscone West), H53L. Coupled Physical and Chemical Transformations Affecting the Performance of Geoenergy Systems II	
1:40 PM-3:40 PM	H53L-06. Towards a complete description of the hydrologic cycle: Large scale simulations with the open-source, parallel, ParFlow hydrologic model. (Invited) <u>R.M. Maxwell</u> ; L.E. Condon; S.J. Kollet; I.M. Ferguson; J.L. Williams
1:40 PM-3:40 PM, Room 303 (Moscone South), EP53A. From Rock to Clay: Evolution of Grain-Size Distributions in Geomorphic Systems II	
1:40 PM-3:40 PM <u>(Conflict)</u>	EP53A-07. Comparing particle-size distributions in modern and ancient sand-bed rivers (Invited) <u>E.A. Hajek</u> ; R.M. Lynds; S.V. Huzurbazar
1:40 PM-3:40 PM, Room 102 (Moscone South), IN53D. Interoperability Solutions in Earth Science Data Systems II	
1:40 PM-3:40 PM <u>(Conflict)</u>	IN53D-07. The CUAHSI Community Hydrologic Information System (Invited) <u>D.G. Tarboton</u> ; D.R. Maidment; I. Zaslavsky; D.P. Ames; J.L. Goodall; R.P. Hooper; J.S. Horsburgh

1:40 PM-3:40 PM, Room 305 (Moscone South), EP53B. Submarine Channel Systems: Flow Dynamics and Sedimentary Deposits II	
1:40 PM-3:40 PM	EP53B-09. Flow Processes and Sedimentation Associated with Erosion and Filling of Sinuous Submarine Channels <u>D.R. Pyles</u> ; M. Tomasso; D. Jennette
4:00 PM-6:00 PM, Room 305 (Moscone South), EP54B. Land-Sea Interactions in Tropical Delta Regions in Transition II	
4:00 PM-6:00 PM <u>(Conflict)</u>	EP54B-01. Global Overview On Delivery Of Sediment To The Coast From Tropical River Basins (Invited) <u>J.P. Syvitski</u> ; A.J. Kettner; G.R. Brakenridge
4:00 PM-6:00 PM, Room 303 (Moscone South), EP54C. Soil Erosion Across Time, Space, and Climate II	
4:00 PM-6:00 PM <u>(Conflict)</u>	EP54C-01. Co-evolution of Soils and Landforms: Erosion Modelling over Decadal Timescales for Disturbed Lands <u>G.R. Willgoose</u> ; G.R. Hancock; S. Cohen
4:00 PM-6:00 PM, Room 3016 (Moscone West), H54E. Recent Advances in Remote Sensing and Modeling in Rivers and Streams for Understanding and Predicting Riverine Dynamics III	
4:00 PM-6:00 PM <u>(Conflict)</u>	H54E-01. Radar and Satellite Remote Sensing for Global and Regional Flood Prediction and Water Cycle Studies (Invited) <u>Y. Hong</u> ; R.F. Adler; J.J. Gourley
4:00 PM-6:00 PM, Room 305 (Moscone South), EP54B. Land-Sea Interactions in Tropical Delta Regions in Transition II	
4:00 PM-6:00 PM <u>(Conflict)</u>	EP54B-02. The impact of an Indonesian river system on tropical coastal ecosystems: synthesis of results <u>P. Hoekstra</u> ; A. Hoitink; F. Buschman; A. Tarya; M. Van Der Vegt; R. Nagtegaal; C. Mannaerts
4:00 PM-6:00 PM, Room 3016 (Moscone West), H54E. Recent Advances in Remote Sensing and Modeling in Rivers and Streams for Understanding and Predicting Riverine Dynamics III	
4:00 PM-6:00 PM <u>(Conflict)</u>	H54E-02. Exploring river - wave dominated delta evolution applying a model-coupling approach <u>F. Xing</u> ; A.J. Kettner; A.D. Ashton; E. Hutton; J. Syvitski
4:00 PM-6:00 PM, Room 3009 (Moscone West), C54B. Ground-Based and Unmanned Aircraft Systems (UAS) Observations and Techniques in Polar Regions II	
4:00 PM-6:00 PM	C54B-03. Testing of SIR (a transformable robotic submarine) in Lake Tahoe for future deployment at West Antarctic Ice Sheet grounding lines of Siple Coast <u>R.D. Powell</u> ; R.P. Scherer; I. Griffiths; L. Taylor; J. Winans; K.D. Mankoff

4:00 PM-6:00 PM, Room 305 (Moscone South), **EP54B. Land-Sea Interactions in Tropical Delta Regions in Transition II**

4:00 PM-6:00 PM

EP54B-05. The Role of Vegetation in the Forms of Tropical Lowland Deltas (*Invited*) R.L. Slingerland; D.A. Edmonds

5:15-5:30 PM

EP54B-06. The late-Holocene progradation of the Mahakam Delta, Indonesia – A case study of tidal, tropical deltas R. Dalman; D. Ranawijaya; T. Missiaen; S. Kroonenberg; J. Storms

5:30-5:45 PM

EP54B-07. Imaging beneath the skin of large tropical rivers: System morphodynamics of the Fly and Beni Rivers revealed by novel sub-surface sonar, deep coring, and modelling (*Invited*) R.E. Aalto; M. Grenfell; J.W. Lauer