

Personalized Itinerary Planner

University of Texas at Austin Presenters
At AGU 2012

AGU-FM12

December 03 - 07, 2012

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Monday, December 03, 2012

Time	Session Info
8:00 AM-12:20 PM, Hall A-C (Moscone South), DI11A. The Mantle Transition Zone and Its Role in Thermochemical Convection I Posters	
8:00-8:00 AM	DI11A-2379. Receiver function images of the mantle transition zone beneath NE China: new constraints on intraplate volcanism, deep subduction and their potential link Z. Liu; F. Niu; Y.J. Chen; S. Grand; H. Kawakatsu; J. Ning; S. Tanaka; M. Obayashi; J.F. Ni
8:00-8:00 AM	DI11A-2388. Upper Mantle Q β Structure beneath the East Pacific Rise from Shear Wave Triplicated Waveforms Y. Wang; S.P. Grand; Y. Tang
8:00-8:00 AM	DI11A-2393. Seismic evidence for upwelling of a mantle plume beneath Northeast China from S wave tomography Y. Tang; S.P. Grand; F. Niu; Y.J. Chen; H. Kawakatsu; S. Tanaka; J. Ning; M. Obayashi; J.F. Ni
8:00 AM-12:20 PM, Hall A-C (Moscone South), GC11A. Climate Change in Mountain Environments Posters	
8:00-8:00 AM	GC11A-0958. Emerging Glacial Lakes in the Cordillera Blanca, Peru: A Case Study at Arteson Glacier R.E. Chisolm; D.C. Mckinney; J. Gomez; K. Voss
8:00-8:00 AM	GC11A-0959. Importance of Field Work in Natural Disaster Risk Assessments in High Mountains D.C. Mckinney; M.A. Somosalenzuela; A.C. Byers
8:00 AM-12:20 PM, Hall A-C (Moscone South), GC11B. Climate Change Science for Sustainability Planning I Posters	
8:00-8:00 AM	GC11B-0985. Controls on Extreme Droughts and Adaptation Strategies in Semiarid Regions B.R. Scanlon; C. Cook; D.N. Fernando; M. LeBlanc
8:00 AM-12:20 PM, Hall A-C (Moscone South), H11C. Exploring Environmental Impacts of Hydraulic Fracturing in the Subsurface Posters	
8:00-8:00 AM	H11C-1193. Texas review of hydraulic fracturing water use and consumption J. Nicot; R.C. Reedy; R. Costley
8:00 AM-12:20 PM, Hall A-C (Moscone South), H11D. Groundwater-Surface Water Interactions: Dynamics Across Spatial and Temporal Scales I Posters	

8:00-8:00 AM	H11D-1223. Hyporheic Exchange Flows and Biogeochemical Patterns near a Meandering Stream: East Fork of the Jemez River, Valles Caldera National Preserve, New Mexico <u>H. Christensen</u> ; J.P. Wooten; E. Swanson; J.J. Senison; K.D. Myers; K.M. Befus; J. Warden; P.B. Zamora; J.D. Gomez; J.L. Wilson; A. Groffman; M.S. Rearick; M.B. Cardenas
8:00 AM-12:20 PM, Hall A-C (Moscone South), IN11B. Informatics in Hydrological Modeling and Information Communication Posters	
8:00-8:00 AM	IN11B-1466. Real-Time System for Water Modeling and Management <u>J. Lee</u> ; T. Zhao; C.H. David; B. Minsker
8:00 AM-12:20 PM, Hall A-C (Moscone South), OS11B. Model-Coupling Approaches to Multiscale Coastal Ocean Processes: Methods and Applications Posters	
8:00-8:00 AM	OS11B-1647. Using Adaptive Mesh Refinement to Simulate Storm Surge <u>K.T. Mandli</u> ; C. Dawson
8:00 AM-12:20 PM, Hall A-C (Moscone South), SM11B. Studies Using Ground Magnetometer Arrays: Specifying Current Systems in the Ionosphere and Magnetosphere I Posters	
8:00-8:00 AM	SM11B-2297. Ionospheric Irregularities at High Latitudes During Geomagnetic Storms and Substorms: Simultaneous Observations of Magnetic Field Perturbations and GPS Scintillations <u>H. Kim</u> ; K. Deshpande; C.R. Clauer; G.S. Bust; G. Crowley; T.E. Humphreys; L. Kim; M. Lessard; A.T. Weatherwax; T.P. Zachariah
8:00 AM-12:20 PM, Hall A-C (Moscone South), V11C. Linking Magma Rheology and Textural Cargo of Volcanic Rocks: Insights From Field Studies, Experiments, and Modeling I Posters	
8:00-8:00 AM	V11C-2786. Eruption dynamics of high silica rhyolites inferred from pyroxene and feldspar microlites <u>K. Befus</u> ; J.E. Gardner
8:00 AM-10:00 AM, 3007 (Moscone West), C11A. Exploration Geophysics and In Situ Monitoring of Glaciers and Ice Streams I	
8:30-8:45 AM <u>(Conflict)</u>	C11A-03. Observations of subglacial water pressure and velocity in the ablation region of Greenland. (Invited) <u>G.A. Catania</u> ; L.C. Andrews; R.L. Hawley; M.J. Hoffman; M.P. Luethi; T. Neumann
8:00 AM-10:00 AM, 309 (Moscone South), T11E. Faults, Fractures, and Fluid Flow in Georesources: Physical, Chemical, and Transport Processes and Models I	
8:30-8:45 AM <u>(Conflict)</u>	T11E-03. Pore pressure within dipping aquifers in overpressured basins <u>B. Gao</u> ; P.B. Flemings
10:20 AM-12:20 PM, 3005 (Moscone West), C12B. Monitoring Changes in Polar Ice Sheets and Sea Ice Using Airborne and Satellite Remote Sensing II	

10:50-11:05 AM (Conflict)	C12B-03. Radiostratigraphy of the Greenland ice sheet from the 2009–2012 Operation IceBridge surveys J.A. MacGregor ; M.A. Fahnestock; G.A. Catania; J.D. Paden; B.M. Wagman; S.C. Rybarski; S.K. Young; A.N. Mabrey
10:20 AM-12:20 PM, 3016 (Moscone West), H12B. Groundwater-Surface Water Interactions: Quantifying Their Functional Relevance With Measurements and Models of Water and Solute Dynamics I	
10:50-11:05 AM (Conflict)	H12B-03. Hydrogeochemical zonation in intertidal salt marsh sediments: evidence of positive plant-soil feedback? K.B. Moffett ; J. Dittmar; A. Seyfferth; S. Fendorf; S. Gorelick
11:05-11:20 AM	H12B-04. Dynamics of sinuosity-driven hyporheic zones: the effects of hydraulic and biogeochemical timescales J.D. Gomez ; J.L. Wilson; M.B. Cardenas
10:20 AM-12:20 PM, 3005 (Moscone West), C12B. Monitoring Changes in Polar Ice Sheets and Sea Ice Using Airborne and Satellite Remote Sensing II	
11:35-11:50 AM (Conflict)	C12B-06. ICESat-1 Elevation Changes of the Greenland and Antarctic Ice Sheets as Derived from Repeat Tracks, Crossovers, and Overlapping Footprints D. Felikson ; B.C. Gunter; N. Pie; B.E. Schutz; T.J. Urban
10:20 AM-12:20 PM, 2008 (Moscone West), PP12A. Inception and Evolution of Antarctic Ice Sheets I	
11:35-11:50 AM (Conflict)	PP12A-06. A barrier to Antarctic circumpolar flow until the mid-Miocene? I.W. Dalziel ; L.A. Lawver; J.A. Pearce; P.F. Barker; A.R. Hastie; D. Barfod; H. Schenke; M.B. Davis
10:20 AM-12:20 PM, 309 (Moscone South), T12B. Faults, Fractures, and Fluid Flow in Georesources: Physical, Chemical, and Transport Processes and Models II	
12:05-12:20 PM	T12B-08. Time-lapse surface seismic data registration and inversion for CO2 sequestration at Cranfield R. Zhang ; X. Song; S. Fomel; M.K. Sen; S. Srinivasan
1:40 PM-6:00 PM, Hall A-C (Moscone South), DI13C.* State of the Art in Computational Geoscience I Posters	
1:40-1:40 PM	DI13C-2440. Mixed Finite Element Method for Melt Migration A.L. Taicher ; M.A. Hesse; T. Arbogast
1:40 PM-3:40 PM, 301 (Moscone South), ED13E. Public Participation in Citizen Science Research I	
1:40-1:55 PM (Conflict)	ED13E-01. The Dawn Mission & Asteroid Mappers: The Impact of Crowd-Sourced Crater Counting (Invited) B.E. Schmidt ; J.E. Scully; R. Hart; C.T. Russell; J. Wise; W.H. Cobb; J. Ristvey; J. Counley; N. Hess

1:40 PM-6:00 PM, Hall A-C (Moscone South), EP13C. Earth and Planetary Surface Processes General Contributions III: Remote Sensing, Chronology, Aeolian, Planetary, Coastal, and Marine Posters	
1:40-1:40 PM	EP13C-0859. Multi-resolution estimation of lidar-DTM surface flow metrics to identify characteristic topographic length scales <u>H. Sangireddy</u> ; P. Passalacqua; C.P. Stark
1:40 PM-6:00 PM, Hall A-C (Moscone South), EP13D. Human Influences on Hydroecogeomorphic Processes Across Spatial Scales in Forested Landscapes I Posters	
1:40-1:40 PM	EP13D-0880. The effects of unpaved roads on suspended sediment concentration of third- to fifth-order streams- A case study from southern Brazil E.L. Thomaz; L.R. Vestena; <u>C.E. Ramos-Scharron</u>
1:40-1:40 PM	EP13D-0884. Ridge to reef assessment of metal concentration and mineralogy in rocks and sediments on St. John, U.S. Virgin Islands <u>R.J. Harrington</u> ; S.C. Gray; C.E. Ramos-Scharron; B. O'Shea
1:40 PM-6:00 PM, Hall A-C (Moscone South), H13D. Groundwater-Surface Water Interactions: Quantifying Their Functional Relevance With Measurements and Models of Water and Solute Dynamics II Posters	
1:40-1:40 PM	H13D-1368. Experimental assessment of the influence of bedforms and sediment size on coupled hyporheic flow and heat transport <u>F. Norman</u> ; M.B. Cardenas
1:40 PM-6:00 PM, Hall A-C (Moscone South), NS13B. Near-Surface Geophysics General Contributions I Posters	
1:40-1:40 PM	NS13B-1605. Stochastic Time-lapse Seismic Inversion with a Hybrid Starting Model and Double-difference Data <u>Y. Tao</u> ; M.K. Sen; R. Zhang; K. Spikes
1:40 PM-6:00 PM, Hall A-C (Moscone South), T13A.* Anatomy of Ancient and Active Shallow Megathrusts I Posters	
1:40-1:40 PM	T13A-2587. Actively dewatering fluid-rich zones along the Costa Rica plate boundary fault <u>N.L. Bangs</u> ; K.D. McIntosh; E.A. Silver; J.W. Kluesner; C.R. Ranero; R. von Huene
1:40 PM-6:00 PM, Hall A-C (Moscone South), T13G. Melt Extraction Through the Lithosphere: Interactions Among Melt Evolution, Deformation, and Migration III Posters	
1:40-1:40 PM	T13G-2704. Shock and Rarefaction Waves in a Heterogeneous Mantle <u>J. Jordan</u> ; M.A. Hesse
1:40 PM-3:40 PM, 103 (Moscone South), V13F. Space, Time, and Transport in Petrology and Geochemistry I: Cosponsored by MSA (Video On-Demand)	
1:40-1:55 PM <u>(Conflict)</u>	V13F-01. Compositional and Ionic-Size Controls on the Diffusion of Divalent Cations in Garnet: Insights from Atomistic Simulations (Invited) <u>W.D. Carlson</u>

1:40 PM-3:40 PM, 308 (Moscone South), T13H.* Before and After Subduction: Incoming Plate Structure, Outer-Rise Faulting, and the Subducted Plate	
2:10-2:25 PM	T13H-03. Mantle hydration at the Middle America Trench: Constraints from seismic anisotropy <u>N.C. Miller</u> ; D. Lizarralde; W. Holbrook; H.J. Van Avendonk
1:40 PM-3:40 PM, 3003 (Moscone West), H13J. Hydrology and Earth Sciences in Developing World Communities I	
2:25-2:40 PM <u>(Conflict)</u>	H13J-04. Interactive and Participatory Decision Support: Linking Cyberinfrastructure, Multi-Touch Interfaces, and Substantive Dialogue for Geothermal Systems <u>R. Malin</u> ; S.A. Pierce; B.J. Bass
1:40 PM-3:40 PM, 309 (Moscone South), T13J. Faults, Fractures, and Fluid Flow in Georesources: Physical, Chemical, and Transport Processes and Models III	
2:25-2:40 PM <u>(Conflict)</u>	T13J-04. Chemical-mechanical interactions during natural fracture growth in tight gas and oil reservoirs: Implications for flow during reservoir charge and production <u>P. Eichhubl</u> ; A. Fall; M. Prodanovic; T. Weisenberger; E. Ukar; S. Laubach; J.F. Gale
1:40 PM-3:40 PM, 3005 (Moscone West), C13H. Remote Sensing of the Cryosphere I	
2:55-3:10 PM <u>(Conflict)</u>	C13H-06. A ten-year record of supraglacial lake evolution and rapid drainage in West Greenland <u>B.F. Morriss</u> ; R.L. Hawley; G.A. Catania; L.C. Andrews; M. Funk; M.P. Luethi; T. Neumann
1:40 PM-3:40 PM, 306 (Moscone South), T13I. Evolution of the Continental Lithosphere III	
2:58-3:12 PM <u>(Conflict)</u>	T13I-07. Flat-slab subduction, orogenesis, intraplate deformation, and glacial erosion in southern Alaska: A tectonic-glacial progression from STEEP <u>T.L. Pavlis</u> ; S.S. Gulick; R.L. Bruhn; G.L. Christeson; E. Enkelmann; J.T. Freymueller; B. Hallet; B.K. Horton; R.A. Hansen; P.O. Koons; G.L. Pavlis; K.D. Ridgway; J.A. Spotila; H.J. Van Avendonk
1:40 PM-3:40 PM, 309 (Moscone South), T13J. Faults, Fractures, and Fluid Flow in Georesources: Physical, Chemical, and Transport Processes and Models III	
3:10-3:25 PM <u>(Conflict)</u>	T13J-07. Timing and Duration of Gas Charge-Driven Fracturing in Tight-Gas Sandstone Reservoirs Based on Fluid Inclusion Observations: Piceance Basin, Colorado <u>A. Fall</u> ; P. Eichhubl; S. Laubach; R.J. Bodnar
1:40 PM-3:40 PM, 306 (Moscone South), T13I. Evolution of the Continental Lithosphere III	
3:26-3:40 PM	T13I-09. A Comprehensive View Of Taiwan Orogeny From TAIGER Perspective <u>F.T. Wu</u> ; H. Kuoehen; K.D. McIntosh; D.A. Okaya; L.L. Lavier

4:00 PM-6:00 PM, 2010 (Moscone West), PP14B. Taking the Temperature of the Quaternary I	
5:00-5:15 PM	PP14B-05. Betting with single forams: Uncertainty constraints on El Niño Southern Oscillation reconstructions using individual foraminiferal analyses <u>T.M. Quinn</u> ; K. Thirumalai; J.W. Partin; C.S. Jackson
4:00 PM-6:00 PM, 104 (Moscone South), NH14A.* Geohazards and Disaster Risks in the North Pacific Region II (Video On-Demand)	
5:15-5:30 PM	NH14A-06. Tectonic Origin of the 1899 Yakutat Bay Earthquakes, Alaska, and Insights into Future Hazards <u>S.S. Gulick</u> ; M.A. LeVoi; P.J. Haeussler; S. Saustrop

Tuesday, December 04, 2012

Time	Session Info
8:00 AM-12:20 PM, Hall A-C (Moscone South), B21B. Climate Impacts on Ecosystems Quantified Using a Combination of Proxy Records and Instrumented Observatories II Posters	
8:00-8:00 AM	B21B-0354. Estimation of Terrestrial COS Uptake From a Global Carbon Cycle Model (CLM-4.0) <u>W. Fu</u> ; R.E. Dickinson; L. Gu; F.M. Hoffman
8:00 AM-12:20 PM, Hall A-C (Moscone South), C21B. Monitoring Changes in Polar Ice Sheets and Sea Ice Using Airborne and Satellite Remote Sensing III Posters	
8:00-8:00 AM	C21B-0584. Noise filtering and surface detection techniques for IceBridge photon counting lidar data over Antarctica <u>L.A. Magruder</u> ; A.L. Neuenschwander; D. Pederson; H.W. Leigh; J. Greenbaum; A. Garcia de Gorordo; D.D. Blankenship; S.D. Kempf; D.A. Young
8:00-8:00 AM	C21B-0596. Airborne geophysical investigation of basal conditions at flow transitions of 16 Greenland Ice Sheet outlet glaciers <u>S.J. Palmer</u> ; J.A. Dowdeswell; P. Christoffersen; D.A. Young; D.D. Blankenship; M.J. Siegert; J.L. Bamber; J. Greenbaum; G. Ng; C. Grima
8:00-8:00 AM	C21B-0598. Relationships between the internal stratigraphy and ice flow of the Greenland ice sheet <u>A.N. Mabrey</u> ; G.A. Catania; J.A. MacGregor; S.K. Young; S.C. Rybarski
8:00 AM-12:20 PM, Hall A-C (Moscone South), C21C. Remote Sensing of the Cryosphere III Posters	
8:00-8:00 AM	C21C-0605. Preliminary development of digital elevation and relief models for ICESat-2 onboard processing <u>H.W. Leigh</u> ; L.A. Magruder; C.C. Carabajal

8:00 AM-10:00 AM, 305 (Moscone South), DI21C. The Mantle Transition Zone and Its Role in Thermochemical Convection II	
8:00-8:15 AM	DI21C-01. Sound Velocities of the Transition Zone Minerals (Invited) <u>J. Lin</u> ; <u>Z. Mao</u> ; <u>C. Lu</u> ; <u>S.D. Jacobsen</u> ; <u>T.S. Duffy</u> ; <u>Y. Chang</u> ; <u>D.J. Frost</u> ; <u>E.H. Hauri</u> ; <u>K.K. Zhuravlev</u> ; <u>S.N. Tkachev</u> ; <u>V. Prakapenka</u>
8:00 AM-12:20 PM, Hall A-C (Moscone South), ED21A. Education General Contributions II Posters	
8:00-8:00 AM	ED21A-0691. Assessing Student Understanding of Physical Hydrology <u>A.J. Castillo</u> ; <u>J. Marshall</u> ; <u>M.B. Cardenas</u>
8:00-8:00 AM	ED21A-0713. Dawn Mission Education and Public Outreach: Science as Human Endeavor <u>W.H. Cobb</u> ; <u>J. Wise</u> ; <u>B.E. Schmidt</u> ; <u>J. Ristvey</u>
8:00 AM-12:20 PM, Hall A-C (Moscone South), GC21C. Hotspots on a Changing Planet: Identifying Water-Energy-Food Security Challenges Under a Changing Climate II Posters	
8:00-8:00 AM	GC21C-0989. Energy Reliability Related to Water Availability under Climate Extremes in Texas <u>R.C. Reedy</u> ; <u>B.R. Scanlon</u> ; <u>I. Duncan</u> ; <u>M. Young</u> ; <u>B.D. Wolaver</u>
8:00 AM-12:20 PM, Hall A-C (Moscone South), H21B. Advanced Watershed Characterization Using Remote Sensing Posters	
8:00-8:00 AM	H21B-1171. Understanding the interaction of climate, vegetation, channelization, and landsliding through lidar analysis (Invited) <u>P. Passalacqua</u> ; <u>C.P. Stark</u>
8:00 AM-12:20 PM, Hall A-C (Moscone South), H21F. Integrated Observations, Modeling, and Predictions for Assessing Water and Energy Budgets at Global and Regional Scales and for a New Earth Observing Water Strategy III Posters	
8:00-8:00 AM	H21F-1238. Global runoff estimates derived from GRACE dataset and in situ observations <u>H.A. Chandanpurkar</u> ; <u>J.S. Famiglietti</u> ; <u>J.T. Reager</u> ; <u>C.H. David</u> ; <u>T.H. Syed</u>
8:00 AM-12:20 PM, Hall A-C (Moscone South), OS21A. Mesoscale Ocean Processes I Posters	
8:00-8:00 AM	OS21A-1683. Impact of Parameterized Lee Wave Drag on the Energy Budget of an Eddyng Global Ocean Model <u>D.S. Trossman</u> ; <u>B.K. Arbic</u> ; <u>S. Garner</u> ; <u>J.A. Goff</u> ; <u>S.R. Jayne</u> ; <u>E. Metzger</u> ; <u>A. Wallcraft</u>
8:00 AM-12:20 PM, Hall A-C (Moscone South), OS21B. Nearshore Processes V Posters	
8:00-8:00 AM	OS21B-1740. THE ROLE OF TERRESTRIAL INPUTS OF ORGANIC MATTER IN ARCTIC LAGOONS: COMPARATIVE STUDIES FROM OPEN-WATER AND ICE-COVERED PERIODS <u>K.H. Dunton</u> ; <u>J.W. McClelland</u> ; <u>T. Connelly</u> ; <u>S. Linn</u> ; <u>M. Khosh</u>

8:00 AM-12:20 PM, Hall A-C (Moscone South), PP21B. The Climate of the Common Era III Posters	
8:00-8:00 AM	PP21B-1996. Decadal-Scale Rainfall Variability in Guam over the Common Era <u>K. Lindzey</u> ; J.W. Partin; T.M. Quinn; J.W. Jenson; C. Shen; J.L. Banner; k. lin; B.F. Hardt
8:00 AM-12:20 PM, Hall A-C (Moscone South), T21A. Faults, Fractures, and Fluid Flow in Georesources: Physical, Chemical, and Transport Processes and Models IV Posters	
8:00-8:00 AM	T21A-2553. Finite element modeling of salt-sheet advance over poro-elastic sediments: the role of topography, contact friction and overpressure. <u>M.A. Nikolinakou</u> ; G. Luo; P.B. Flemings; M.R. Hudec
8:00-8:00 AM	T21A-2554. Effects of fault-controlled CO2 alteration on mineralogical and geomechanical properties of reservoir and seal rocks, Crystal Geyser, Green River, Utah <u>J.R. Major</u> ; P. Eichhubl; A. Urquhart; T.A. Dewers
8:00-8:00 AM	T21A-2555. Structural-Diagenetic Controls on Fracture Opening in Tight Gas Sandstone Reservoirs, Alberta Foothills <u>E. Ukar</u> ; P. Eichhubl; A. Fall; J.N. Hooker
8:00-8:00 AM	T21A-2556. Reconstructing the growth of a fracture set using fluid inclusion microthermometry, El Alamar Formation (Triassic), NE Mexico J.N. Hooker; <u>P. Eichhubl</u> ; S. Laubach
8:00 AM-12:20 PM, Hall A-C (Moscone South), T21C.* Fluids and Hydrous Phases in Subduction Zones I Posters	
8:00-8:00 AM	T21C-2586. Pore fluid pressure detection within the plate boundary fault interface of the Costa Rica convergent margin using AVO attributes <u>S. Graf</u> ; N.L. Bangs; K.D. McIntosh
8:00 AM-12:20 PM, Hall A-C (Moscone South), T21E. The Geodynamics of High Topography: Exploring the Interactions Between Solid Earth, Hydrosphere, and Atmosphere I Posters	
8:00-8:00 AM	T21E-2609. Late Cenozoic basin evolution and fold-thrust deformation in the southern Central Andes: Initial constraints from synorogenic deposits of the Precordillera, Argentina <u>M. Levina</u> ; B.K. Horton; F. Fuentes; D.F. Stockli
8:00 AM-10:00 AM, 3010 (Moscone West), A21K. Dynamics and Chemistry of the Coupled Troposphere/Stratosphere System: Tropical Tropopause Layer (TTL)	
8:30-8:45 AM (Conflict)	A21K-03. Generation mechanism of tape recorder signal of water vapor, CO, and ozone in the tropical stratosphere: a simple model study <u>J. Chae</u> ; R. Fu
8:00 AM-10:00 AM, 3014 (Moscone West), H21M. Reactive Transport in Permeable Media I	

8:30-8:45 AM (Conflict)	Abstract Withdrawn
8:00 AM-10:00 AM, 301 (Moscone South), ED21D. Climate Literacy: Preparing K-12 Students to Address Next Generation Challenges I	
9:00-9:15 AM (Conflict)	ED21D-05. Why should we care? Awakening Middle and High School students to the reality of climate change. <u>J.M. Manley</u> ; A.N. Barr; K.K. Ellins; N. Haddad; T.S. Ledley; C. Dunlap; E. Bardar
8:00 AM-10:00 AM, 2005 (Moscone West), P21H. Geophysics of Satellites and Small Bodies I	
9:00-9:15 AM (Conflict)	P23B-1931. European Ocean Dynamics Inferred from Surface Geology B.E. Schmidt; <u>K.M. Soderlund</u> ; D.D. Blankenship; J. Wicht
8:00 AM-10:00 AM, 104 (Moscone South), PA21B. Communication of Science Through Art: A Raison d'Etire for Interdisciplinary Collaboration I (Video On-Demand)	
9:00-9:15 AM (Conflict)	PA21B-06. The Power and Pleasure of Visual Arts in Exploring Remote Environments (Invited) <u>V. Robigou-Nelson</u> ; K.K. Ellins
8:00 AM-10:00 AM, 3009 (Moscone West), G21B. Plate Motion and Continental Deformation I	
9:45-10:00 AM	G21B-08. In Search of Hidden Subsurface Sources of Deformation and Earthquakes: A Catalogue of High Resolution Stress Rates of Surface Expressions <u>L.L. Dimitrova</u> ; J. Haines; L.M. Wallace; C.A. Williams; R.J. Beavan
10:20 AM-12:20 PM, 305 (Moscone South), DI22A.* State of the Art in Computational Geoscience II	
11:35-11:50 AM	DI22A-06. Techniques for Solving the Stokes Equations of Ice Sheet Dynamics at Continental Scale (Invited) <u>T. Isaac</u> ; O. Ghattas; G. Stadler
10:20 AM-12:20 PM, 308 (Moscone South), T22A.* Anatomy of Ancient and Active Shallow Megathrusts IV	
11:50-12:05 PM	T22A-07. Rough-crust subduction, upper plate structure, and variable fault behavior at the northern Hikurangi Margin, New Zealand <u>P.M. Barnes</u> ; S.A. Henrys; J. Mountjoy; D.H. Barker; A. Plaza-Faverola; R.E. Bell; E.A. Silver; F. Caratori Tontini; L.M. Wallace; D.M. Saffer
1:40 PM-6:00 PM, Hall A-C (Moscone South), B23E. Evapotranspiration Measurement and Modeling II Posters	
1:40-1:40 PM	B23E-0502. The impact of different soil texture datasets on soil moisture and evapotranspiration simulated by CLM4 <u>B. Yan</u> ; R.E. Dickinson

1:40 PM-6:00 PM, Hall A-C (Moscone South), C23A. Climate-Glacier Dynamics in the Himalaya I Posters	
1:40-1:40 PM	C23A-0636. Remote Sensing Characterization of Glaciers in the N. Himachal Pradesh <u>D. Le</u> ; G.A. Catania
1:40 PM-6:00 PM, Hall A-C (Moscone South), C23C. Fast-Flowing Glaciers and Glacial Hydrology II Posters	
1:40-1:40 PM	C23C-0670. Assessment of moulin head variations and subglacial conduit connectivity in the Greenland ablation zone <u>J.D. Nowinski</u> ; G.A. Catania; L.C. Andrews; J.D. Gulley; J.A. MacGregor; R.L. Hawley; M.J. Hoffman; M.P. Luethi; T. Neumann
1:40-1:40 PM	C23C-0671. Seasonal Subglacial Hydrological Evolution of a Greenland Tidewater Glacier <u>K.M. Schild</u> ; R.L. Hawley; B.F. Morriss; M.J. Hoffman; G.A. Catania; T. Neumann
1:40 PM-6:00 PM, Hall A-C (Moscone South), ED23A. Climate Literacy: Preparing K-12 Students to Address Next Generation Challenges III Posters	
1:40-1:40 PM	ED23A-0734. Climate Literacy: Supporting Teacher Professional Development <u>N. Haddad</u> ; T.S. Ledley; C. Dunlap; E. Bardar; B. Youngman; K.K. Ellins; K.S. McNeal; J. Libarkin
1:40-1:40 PM	ED23A-0738. Using EarthLabs to Enhance Earth Science Curriculum in Texas <u>D.M. Chegwiddden</u> ; K.K. Ellins; N. Haddad; T.S. Ledley
1:40 PM-6:00 PM, Hall A-C (Moscone South), EP23B. Beyond Grain Size: Controls on Particle Transport I Posters	
1:40-1:40 PM	EP23B-0814. The coevolution of bed roughness, grain clustering, surface armoring, hydraulic roughness, and sediment transport rate in experimental coarse alluvial channels: implications for long-term effects of gravel augmentation <u>J.P. Johnson</u> ; A.C. Aronovitz
1:40 PM-6:00 PM, Hall A-C (Moscone South), GC23C. Global Environmental Change: General Contributions II Posters	
1:40-1:40 PM	GC23C-1087. Seasonal dynamics of particulate organic carbon and nitrogen in Alaskan Arctic streams and rivers <u>M.S. Khosh</u> ; J.W. McClelland; A.D. Jacobson; T.A. Douglas; G.O. Lehn; A.J. Barker
1:40 PM-6:00 PM, Hall A-C (Moscone South), H23A. Advances in Geochemical and Hydrogeological Studies of CO2 Fate and Transport at Geological CO2 Sequestration Sites I Posters	
1:40-1:40 PM	H23A-1316. The role of gravity fingering in mitigating CO2 leakage during storage in anticlines <u>M. Szulczewski</u> ; M.A. Hesse; R. Juanes

1:40-1:40 PM	H23A-1339. Natural heterogeneity and evolving geochemistry of Lower Tuscaloosa Formation brine in response to continuing CO2 injection at Cranfield EOR site, Mississippi, USA <u>J.J. Thordsen</u> ; Y.K. Kharaka; B. Thomas; A.A. Abedini; C.H. Conaway; M.A. Manning; J. Lu
1:40-1:40 PM	H23A-1340. Detecting potential impacts of deep subsurface CO2 injection on shallow drinking water R.C. Smyth; <u>C. Yang</u> ; K. Romanak; P.J. Mickler; J. Lu; S.D. Hovorka
1:40 PM-6:00 PM, Hall A-C (Moscone South), H23D. Multiphase Flow, Interfacial, and Geomechanical Processes Controlling CO2 Sequestration IV Posters	
1:40-1:40 PM	H23D-1396. Tracer Partitioning in Two-Phase Flow <u>K. Sathaye</u> ; M.A. Hesse
1:40-1:40 PM	H23D-1398. Modeling of Compositional Effects of Foam Assisted CO2 Storage Processes <u>A. Naderi Beni</u> ; A. Varavei; R. Farajzadeh; M. Delshad
1:40 PM-6:00 PM, Hall A-C (Moscone South), H23E. Reactive Transport in Permeable Media II Posters	
1:40-1:40 PM	H23E-1421. A Multiblock Approach to Pore-Scale Modeling of Reactive Transport with Applications to Carbon Sequestration <u>y. mehmani</u> ; T. Sun; M. Balhoff; S.L. Bryant; P. Eichhubl
1:40-1:40 PM	H23E-1423. Measurement of imbibition rate of surfactant solution into fractured oil-wet porous media using CT scanning <u>M. Mirzaei</u> ; B. Aminzadeh; D.A. DiCarlo; G. Pope
1:40 PM-6:00 PM, Hall A-C (Moscone South), IN23C. Data Stewardship, Citation With Confidence, and Preparing Next Generation of Data Managers II Posters	
1:40-1:40 PM	IN23C-1517. GLAS Long-Term Archive: Preservation and Stewardship for a Vital Earth Observing Mission D.K. Fowler; J.F. Moses; J. Zwally; B.E. Schutz; D. Hancock; M. McAllister; D. Webster; C. Bond
1:40 PM-6:00 PM, Hall A-C (Moscone South), T23C. Evolution of the Continental Lithosphere V Posters	
1:40-1:40 PM	T23C-2688. Deep Structure of the Yakutat Terrane, Southern Alaska <u>G.L. Christeson</u> ; H.J. Van Avendonk; S.S. Gulick; R.S. Reece; G.L. Pavlis; R.F. Hansen
1:40-1:40 PM	T23C-2693. A lithospheric seismic profile across northern Taiwan, from arc-continental collision to extension <u>H.J. Van Avendonk</u> ; K.D. McIntosh; L.L. Lavier; F.T. Wu; D.A. Okaya; H. Kuoehen
1:40 PM-6:00 PM, Hall A-C (Moscone South), T23D. How Well Do We Predict Fractures and Their Patterns? II Posters	

1:40-1:40 PM	T23D-2702. Bounds on fault strength based on simulation of "rider block" structures emerging from brittle lithosphere extension <u>E. Choi</u> ; W.R. Buck; L.L. Lavier; K. Petersen
1:40 PM-6:00 PM, Hall A-C (Moscone South), T23E. The Cascadia Margin From Inside and Out II Posters	
1:40-1:40 PM	T23E-2734. Halogen Chemistry and Stable Cl Isotope Composition of Thermal Springs in the Cascade Arc <u>J. Cullen</u> ; J. Barnes; S. Hurwitz; W.P. Leeman
1:40 PM-6:00 PM, Hall A-C (Moscone South), V23A. High-Resolution Geochronology III Posters	
1:40-1:40 PM	V23A-2798. Accounting for long alpha-particle stopping distances in (U–Th–Sm)/He geochronology: 3D modeling of diffusion, zoning, implantation, and abrasion <u>C. Gautheron</u> ; L. Tassan-Got; R.A. Ketcham; K.J. Dobson
1:40 PM-6:00 PM, Hall A-C (Moscone South), V23D. Space, Time, and Transport in Petrology and Geochemistry II Posters: Cosponsored by MSA	
1:40-1:40 PM	V23D-2855. Metamorphic crystallization kinetics quantified through space and time <u>E.D. Kelly</u> ; W.D. Carlson; R.A. Ketcham
1:40-1:40 PM	V23D-2856. Coupled diffusion of lithium and yttrium (+HREE) in garnet <u>R.C. Cahalan</u> ; E.D. Kelly; W.D. Carlson
1:40-1:40 PM	V23D-2867. Intercalibration of multiple thermochronometric systems at the Little Devil's Postpile contact aureole. <u>D.L. Shuster</u> ; P.W. Reiners; J.L. Schmidt; P.K. Zeitler; R.A. Ketcham; L. Karlstrom
1:40 PM-3:40 PM, 303 (Moscone South), V23G. Magma Properties, Magma Degassing Behavior, and Post-eruptive Volatile Modifications I: Cosponsored by MSA	
1:40-1:55 PM	V23G-01. Integrated experiments and modeling of H ₂ O-CO ₂ degassing during magma ascent. (Invited) <u>H.M. Gonnermann</u> ; J.E. Gardner
1:40 PM-3:40 PM, 3012 (Moscone West), A23L. Water Vapor in the Upper Troposphere and Lower Stratosphere I	
1:55-2:10 PM	A23L-02. Observed Decadal Variations of the Zonal Mean Hygropause <u>M. Roell</u> ; R. Fu
1:40 PM-3:40 PM, 3009 (Moscone West), G23C.* Geodetic Observations of GIA: A Window Into Past Ice Sheets and Earth Rheology II	
2:25-2:4) PM <u>(Conflict)</u>	G21A-0877. A data-driven approach for the determination of Antarctic GIA <u>O. Didova</u> ; <u>B.C. Gunter</u> ; R.E. Riva; M.R. van den Broeke; S. Ligtenberg; J. Lenaerts; M. King; T.J. Urban; N. Pie; D. Felikson

1:40 PM-3:40 PM, 307 (Moscone South), MR23D. Mudstone Multiphysics: Matrix to Fractures and Back Again I	
2:25-2:40 PM (Conflict)	MR23D-04. Making Mudstones: insights into material behavior through re-sedimentation experiments (Invited) <u>P.B. Flemings</u> ; J. Reece; A.L. Adams; J.T. Germaine
2:40 PM-3:40 PM, 2007 (Moscone West), P23E.* Recent Advances in Planetary Aeolian Studies II	
2:40-2:55 PM	P23E-01. Source-to-sink cycling of aeolian sediment in the north polar region of Mars (Invited) <u>R.C. Ewing</u> ; G. Kocurek
1:40 PM-3:40 PM, 3009 (Moscone West), G23C.* Geodetic Observations of GIA: A Window Into Past Ice Sheets and Earth Rheology II	
2:55-3:10 PM	G23C-06. In Situ Observational Constraints on GIA in Antarctica (Invited) <u>T.J. Wilson</u> ; M.G. Bevis; E.C. Kendrick; S. Konfal; I.W. Dalziel; R. Smalley; M.J. Willis; D.A. Wiens; D.S. Heeszel
1:40 PM-3:40 PM, 3020 (Moscone West), H23K. Remote Sensing, Modeling, and Ground-Based Monitoring of Groundwater Resources I	
3:15-3:30 PM	Abstract Withdrawn
4:00 PM-6:00 PM, 2008 (Moscone West), PP24A. Climate Variability From High-Resolution Proxies II	
4:15-4:30 PM (Conflict)	PP24A-02. A 12,000-Year-Long, Annually-Resolved Varve Record Spanning the Last Interglacial from Lake Bosumtwi, Southern Ghana <u>N. McKay</u> ; J.T. Overpeck; T.M. Shanahan; J.A. Peck; C.W. Heil; J.W. King; C.A. Scholz
4:00 PM-6:00 PM, 306 (Moscone South), T24C. The Geodynamics of High Topography: Exploring the Interactions Between Solid Earth, Hydrosphere, and Atmosphere II	
4:15-4:30 PM (Conflict)	T24C-02. Cenozoic crustal shortening and thickening contributions to Andean orogenesis: Preliminary results from structural mapping in the southern Peruvian Andes <u>N. Perez</u> ; B.K. Horton
4:00 PM-6:00 PM, 3022 (Moscone West), H24B. Large-Scale, Long-Term Changes in Catchment Hydrology and Water Quality II	
5:00-5:15 PM	H24B-05. Changing Nitrate Concentrations in Arid Basin Aquifers-How Anthropogenic and Natural Processes Affect Water Quality and Availability in Trans-Pecos, TX <u>W.M. Robertson</u> ; J.K. Bohlke; J.M. Sharp
4:00 PM-6:00 PM, 2008 (Moscone West), PP24A. Climate Variability From High-Resolution Proxies II	

5:45-6:00 PM	PP24A-08. Decadal variability in Gulf of Mexico sea surface temperatures since 1734 CE <u>K.L. DeLong</u> ; C.R. Maupin; J.A. Flannery; T.M. Quinn; k. lin; C. Shen
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Wednesday, December 05, 2012

Time	Session Info
8:00 AM-12:20 PM, Hall A-C (Moscone South), C31A. Geological Controls on Ice Dynamics I Posters	
8:00-8:00 AM	C31A-0576. Evaluating transience of a potential geothermal heat flux anomaly beneath a tributary ice stream of Thwaites Glacier, West Antarctica <u>J.B. DeSanto</u> ; D.D. Blankenship; D.A. Young; L.L. Lavier; E. Choi
8:00 AM-12:20 PM, Hall A-C (Moscone South), EP31D. Tracers, Transport, and Topography: Theory and Technology for Tractive Tracking I Posters	
8:00-8:00 AM	EP31D-0838. Evaluating bedload transport with RFID and accelerometer tracers, airborne LiDAR, and HEC-GeoRAS modeling: field experiments in Reynolds Creek, Idaho <u>L. Olinde</u> ; J.P. Johnson; F.B. Pierson
8:00 AM-10:00 AM, 3009 (Moscone West), G31C. Decade-Long Mass Flux Measurements From GRACE: Status and Future Prospects I	
8:00-8:15 AM <u>(Conflict)</u>	G31C-01. The Status of GRACE After the First Decade <u>B.D. Tapley</u> ; S. Bettadpur; F. Flechtner; M.M. Watkins
8:00 AM-12:20 PM, Hall A-C (Moscone South), H31F. Remote Sensing, Modeling, and Ground-Based Monitoring of Groundwater Resources III Posters	
8:00-8:00 AM	H31F-1186. Contribution of Groundwater Depletion to Global Mean Sea Level Rise <u>A. Lambinico</u> ; K. An; J.T. Reager; R.E. Druffel-Rodriguez; A.S. Richey; J.S. Famiglietti; M. Rodell
8:00-8:00 AM	H31F-1187. Monitoring Water Storage Changes using Satellite and Ground-based Data in Texas in Response to the 2011 Drought <u>D. Long</u> ; L. Longuevergne; C.R. Wilson; H. Save; B.R. Scanlon; D.R. Maidment; W. Neely; J. Sullivan
8:00-8:00 AM	H31F-1189. Impact of Reservoirs on GRACE Water Storage Estimates, Implications for Tigris-Euphrates and other regions <u>L. Longuevergne</u> ; <u>C.R. Wilson</u> ; B.R. Scanlon; J. Cretaux
8:00 AM-12:20 PM, Hall A-C (Moscone South), IN31A. Data Interoperability and Interuse Solutions I Posters	

8:00-8:00 AM	IN31A-1494. Bridging the Digital Divide between Discrete and Continuous Space-Time Array Data to Enhance Accessibility to and Usability of NASA Earth Sciences Data for the Hydrological Community <u>W.L. Teng</u> ; <u>D.R. Maidment</u> ; B. Vollmer; C.D. Peters-Lidard; H. Rui; R. Strub; T. Whiteaker; D.M. Mocko; D.B. Kirschbaum
8:00 AM-12:20 PM, Hall A-C (Moscone South), IN31C. Technology Enabling Earth Science From Big Data to Small Satellites I Posters	
8:00-8:00 AM	IN31C-1506. Leveraging Small Satellite Mission Architectures to Improve Science Return <u>E. Lightsey</u>
8:00 AM-12:20 PM, Hall A-C (Moscone South), NG31B. Novel Inverse Methods for High-Dimensional and Nonlinear Problems II Posters	
8:00-8:00 AM	NG31B-1583. Inversion of basal boundary conditions for a thermomechanically coupled nonlinear Stokes ice sheet model <u>H. Zhu</u> ; N. Petra; G. Stadler; T. Isaac; T.J. Hughes; O. Ghattas
8:00 AM-12:20 PM, Hall A-C (Moscone South), P31B. Planetary Magnetism I Posters	
8:00-8:00 AM	P31B-1898. Weakly-rotating Convective Dynamos: Application to Uranus and Neptune <u>K.M. Soderlund</u> ; M.H. Heimpel; E.M. King; J.M. Aurnou
8:00 AM-12:20 PM, Hall A-C (Moscone South), PP31C. Tropical Hydrology and the Hadley Circulation in Past Climates I Posters	
8:00-8:00 AM	PP31C-2044. Insolation and Abrupt Climate Change Effects on the Western Pacific Maritime Monsoon <u>J.W. Partin</u> ; T.M. Quinn; C. Shen; M.B. Cardenas; F.P. Siringan; J.L. Banner; k. lin; F.W. Taylor
8:00 AM-12:20 PM, Hall A-C (Moscone South), T31B. Interdisciplinary Perspectives on the Origin of Intraplate Volcanism and Large Igneous Provinces I Posters	
8:00-8:00 AM	T31B-2592. THE EFFECT OF PLATE STRUCTURE ON INTRAPLATE VOLCANISM, KODIAK-BOWIE SEAMOUNT CHAIN, GULF OF ALASKA <u>R.S. Reece</u> ; G.L. Christeson; S.S. Gulick; G.A. Barth; H.J. Van Avendonk
8:00 AM-10:00 AM, 309 (Moscone South), T31E. Controls on Seismicity and Fault Rupture in Low-Strain Intraplate Regions I	
8:00-8:15 AM <u>(Conflict)</u>	T31E-01. Clustered and transient earthquake sequences in mid-continents (Invited) <u>M. Liu</u> ; S.A. Stein; H. Wang; G. Luo
8:00 AM-10:00 AM, 2006 (Moscone West), PP31D. Continental Archives of Past Climate and Seismic Events II	
8:45-9:00 AM	PP31D-04. 500,000 years of vegetation change in western tropical Africa <u>C.S. Miller</u> ; W.D. Gosling; T.M. Shanahan; A.L. Coe

8:00 AM-10:00 AM, 2003 (Moscone West), EP31E. Aeolian Processes and Desert Landscape Development: Feedbacks Among Atmospheric Boundary Layer Turbulence, Sediment Transport, and Morphodynamics II	
9:00-9:15 AM <u>(Conflict)</u>	EP31E-05. Large-eddy Simulation of Boundary Layer Flow over Desert Sand Dune Structures <u>S. Uhlrich</u> ; W. Anderson; P. Passalacqua; D.C. Mohrig; G. Kocurek
8:00 AM-10:00 AM, 2010 (Moscone West), PP31F. The Fidelity of Lipids-Derived Temperature Proxies: Ecological, Physiological, or Genetic Effects, and Multiproxy Approaches I	
9:00-9:15 AM <u>(Conflict)</u>	PP31F-05. The isolation of the temperature effect on branched GDGT distribution in an elevation transect of the Eastern Cordillera, Colombia. <u>V.J. Anderson</u> ; T.M. Shanahan; J. Saylor; B.K. Horton
8:00 AM-10:00 AM, 305 (Moscone South), S31C. Seismic Tomography Across the Scales I	
9:00-9:15 AM <u>(Conflict)</u>	S31C-05. Investigating the Feasibility of Traveltime Tomography for Monitoring CO2 Enhanced Oil Recovery <u>L.K. Barghouty</u> ; Y. Quan; J.M. Harris
8:00 AM-10:00 AM, 306 (Moscone South), T31F. Links Between Tectonics, Climate, Erosion, and Sedimentation in Orogenic Plateaus and Marginal Basins I	
9:00-9:15 AM <u>(Conflict)</u>	T31F-05. PALEOGENE TOPOGRAPHY AND DRAINAGE MORPHOLOGY ACROSS NEVADA: EVIDENCE FROM DEPOSITIONAL SYSTEMS, SEDIMENT PROVENANCE, AND δD OF ANCIENT WATERS IN VOLCANIC GLASS <u>E.J. Cassel</u> ; C.D. Henry; T.E. Larson
9:00 AM-10:00 AM, 2007 (Moscone West), P31E. Planetary Radar Investigations: Observations, Lab Measurements, Field Analogues, and Future Opportunities I	
9:30-9:45 AM	P31E-03. Age Constraints and Growth/Retreat History of Planum Boreum, Mars from a 3-D Analysis of SHARAD Radar Data Combined with Modeling <u>J.W. Holt</u> ; R. Greve; R.J. Phillips
8:00 AM-10:00 AM, 307 (Moscone South), S31B. Induced Seismicity: Monitoring I	
9:45-10:00 AM	S31B-09. Scientific Deep Drilling to Study Reservoir Triggered Earthquakes at Koyana, India <u>H.K. Gupta</u> ; M. Sen; <u>P.N. Rao</u> ; S. Dodla; M. Kothamasu; S. Roy
10:20 AM-12:20 PM, 3024 (Moscone West), OS32A. Interpretation of Tsunami and Storm Deposits I	
10:20-10:35 AM	OS32A-01. Combined Flow Bedforms: Descriptions and Implications for Understanding Ancient Storms Deposits <u>M.M. Perillo</u> ; S. David; J.L. Best; M.H. Garcia

10:20 AM-12:20 PM, 3007 (Moscone West), C32B. Diagnosing Modeling Deficiencies and the Recent Advances in Monitoring, Measuring, and Modeling Snow Processes I	
10:35-10:50 AM	C32B-02. Diagnosing current land surface models' ability to represent snowpack evolution in complex terrain and forested Central Rockies (Invited) <u>F. Chen</u> ; M.J. Barlage; M. Tewari; R. Rasmussen; Y. Bao; J. Jin; D.P. Lettenmaier; B. Livneh; C. Lin; G. Miguez-Macho; G. Niu; L. Wen; Z. Yang
10:20 AM-12:20 PM, 2002 (Moscone West), B32D. Remote Characterization of Vegetation Structure, Function, and Condition I	
10:50-11:05 AM	B32D-04. Analysis of MABEL data (an ICESat-2 instrument simulator) for ecosystem studies <u>A.L. Neuenschwander</u> ; D. Pederson; L.A. Magruder
10:20 AM-12:20 PM, 3018 (Moscone West), H32F. Uncertainty Quantification and Parameter Estimation: Impacts on Risk and Decision Making III	
11:05-11:20 AM	H32F-04. Evaluation for Water Conservation in Agriculture: Using a Multi-Method Econometric Approach <u>A. Ramirez</u> ; D.J. Eaton
10:20 AM-12:20 PM, 3016 (Moscone West), H32A. Advances in Geochemical and Hydrogeological Studies of CO ₂ Fate and Transport at Geological CO ₂ Sequestration Sites III	
11:35-11:50 AM	H32A-06. Modeling experimental stable isotope results from CO ₂ adsorption and diffusion experiments <u>T.E. Larson</u>
10:20 AM-12:20 PM, 3003 (Moscone West), GC32A.* Interpretation and Uncertainty Quantification of Climate and Integrated Earth System Models II	
11:50-12:05 PM	GC32A-07. A Stochastic Newton MCMC method with applications to ice sheet inverse problems <u>N. Petra</u> ; J. Martin; G. Stadler; O. Ghattas
12:05-12:20 PM <u>(Conflict)</u>	GC32A-08. Selecting, weeding, and weighting biased climate model ensembles (Invited) <u>C.S. Jackson</u> ; J. Picton; G. Huerta; A. Nosedal Sanchez
10:20 AM-12:20 PM, 104 (Moscone South), H32C. Advancing Drought Monitoring and Prediction With Applications to Decision Making II (Video On-Demand)	
12:05-12:20 PM <u>(Conflict)</u>	H32C-08. Improving Drought Predictability for Application to Water Resources Management in Texas <u>D.N. Fernando</u> ; R. Fu; B.R. Scanlon; R.S. Solis; R. Mace; L. Yin; A.R. Bowerman; J. Mioduszewski
1:40 PM-6:00 PM, Hall A-C (Moscone South), A33E.* Mineral Dust Aerosols: From Small-Scale to Large-Scale Understanding II Posters	
1:40-1:40 PM	A33E-0212. Evaluating the Variation of Dust Emission and Its Controlling Factors over Saudi Arabia <u>M. Shi</u> ; Z. Yang; W. Tao; G.L. Stenchikov; S. Kalenderski

1:40 PM-6:00 PM, Hall A-C (Moscone South), A33F. Multiplatform and Multisensor Satellite Observations of Cloud-Precipitation Structures and Microphysics II Posters	
1:40-1:40 PM	A33F-0224. Cloud Fraction Variations from 2000 to 2011: Cosmic Rays or ENSO? <u>T. Ren</u> ; R. Fu; R.E. Dickinson
1:40 PM-6:00 PM, Hall A-C (Moscone South), C33B. In Situ and Field-Based Measurements of the Cryosphere: Avalanches and Other Applications II Posters	
1:40-1:40 PM	C33B-0655. A comparison of age-depth scales derived from shallow ice cores and an FMCW radar in West Antarctica <u>L. Koenig</u> ; V. Onana; R.R. Forster; C. Miede; S. Rupper; L.K. Burgener; A.E. Patel; J.A. MacGregor
1:40-1:40 PM	C33B-0662. Caterpillar-like flow of the Greenland Ice Sheet: observations of basal control on ice motion. <u>C. Ryser</u> ; M.P. Luethi; M. Funk; G.A. Catania; L.C. Andrews; R.L. Hawley; T. Neumann; M.J. Hoffman
1:40 PM-6:00 PM, Hall A-C (Moscone South), DI33A. The Earth's Complex Core: Bridging Our Understanding From Seismology to Mineral Physics and Beyond II Posters	
1:40-1:40 PM	DI33A-2419. On the Possibility of a Thin, Molten Silicate Basal Magma Layer at the Base of Earth's Mantle <u>S. Hempel</u> ; X. Liu; E.S. Rainey; M. Ulvrova; Y. Wang; L. Ye; C.Y. Shi; O. Sramek; R. Caracas; E.J. Garnero; D.C. Rubie; Q.C. Williams
1:40 PM-6:00 PM, Hall A-C (Moscone South), EP33B. Coastal Geomorphology and Morphodynamics I Posters	
1:40-1:40 PM	EP33B-0873. Geometry of the Paleo-Nueces River Incised-Valley, Corpus Christi Bay, Texas as it Relates to Quaternary Sea Level History <u>L. Lugin</u> ; S.S. Gulick; J.A. Goff
1:40-1:40 PM	EP33B-0874. A network-based analysis of delta morphology and ecology: An example from Wax Lake Delta <u>M. Hiatt</u> ; P. Passalacqua; J.B. Shaw; D.C. Mohrig
1:40 PM-6:00 PM, Hall A-C (Moscone South), G33A. Decade-Long Mass Flux Measurements From GRACE: Status and Future Prospects II Posters	
1:40-1:40 PM	G33A-0933. Investigation of the Effect of Repeat Orbits on GRACE's Gravity Recovery A.J. Pini; <u>S. Bettadpur</u>
1:40-1:40 PM	G33A-0934. Examination of Numerical Integration Accuracy and Modeling for GRACE-FO and GRACE-II <u>C. McCullough</u> ; S. Bettadpur
1:40-1:40 PM	G33A-0935. Release 5 (RL05) Regularized Gravity Fields from GRACE and its Comparison with Release 4 (RL04) <u>H. Save</u> ; S. Bettadpur

1:40-1:40 PM	G33A-0944. Evaluating high resolution GRACE solutions against in situ measurements in the Three-Gorge Reservoir <u>C. De Linage</u> ; S. Bettadpur; J.S. Famiglietti
1:40 PM-6:00 PM, Hall A-C (Moscone South), H33A. A Vision for the Future: Exploring the Value of Geophysics in Hydrology I Posters	
1:40-1:40 PM	H33A-1278. Fully-coupled hydrogeophysical inversion of time-series surface deformation and well pressure measurements <u>M.A. Hesse</u> ; G. Stadler
1:40 PM-6:00 PM, Hall A-C (Moscone South), H33B. Advances in the Theory, Modeling, Measurement, and Remote Sensing of Evapotranspiration From Terrestrial Surfaces III Posters	
1:40-1:40 PM	H33B-1308. Energy Balance Comparison and Closure at a Moist Desert Playa: The Importance of Ground Heat Storage and Flux Estimation J.L. Huntington; S. Rajagopal; R.G. Allen; T.M. Mihevc; R. Schumer; T. Caldwell; H. deBruin
1:40 PM-6:00 PM, Hall A-C (Moscone South), H33H. Recent Advances in Modeling Water in the Coupled Earth System II Posters	
1:40-1:40 PM	H33H-1428. Computing flow in mapped rivers of the United States using national datasets <u>C.H. David</u> ; Z. Yang
1:40 PM-6:00 PM, Hall A-C (Moscone South), IN33A. Applications of GPU and MIC in Geosciences Posters	
1:40-1:40 PM	IN33A-1521. ManyClaw: Implementation and Comparison of Intra-Node Parallelism of Clawpack (Invited) <u>A.R. Terrel</u> ; K.T. Mandli
1:40 PM-6:00 PM, Hall A-C (Moscone South), MR33A. Deformation and Transport Processes in the Dynamic Earth I Posters	
1:40-1:40 PM	MR33A-2429. Modeling Fluid Composition in CO2 Saturated Sandstone Using a Statistical Rock Physics Approach, Cranfield Field, Cranfield, MS <u>R. Carter</u> ; K. Spikes
1:40 PM-6:00 PM, Hall A-C (Moscone South), MR33B. Mudstone Multiphysics: Matrix to Fractures and Back Again II Posters	
1:40-1:40 PM	Abstract Withdrawn
1:40-1:40 PM	Abstract Withdrawn
1:40-1:40 PM	Abstract Withdrawn
1:40-1:40 PM	MR33B-2461. The effect of sorption on shale gas transport study using a multiphysics, multiscale network model <u>A. Mehmani</u> ; M. Prodanovic

1:40-1:40 PM	MR33B-2462. Transient pressure-pulse decay permeability measurements in the Barnett shale <u>A.R. Bhandari</u> ; J. Reece; M.B. Cronin; P.B. Flemings; P.J. Polito
1:40-1:40 PM	MR33B-2463. Prediction of hydraulic diffusivity in marine mudstones through resedimentation experiments <u>J. Reece</u> ; P.B. Flemings
1:40 PM-6:00 PM, Hall A-C (Moscone South), OS33D. Turbulent Mixing and Convection in Climate Models: Atmosphere and Ocean I Posters	
1:40-1:40 PM	OS33D-1865. Observational tests of the K-Profile Parameterization as implemented in the MITgcm C.S. Jackson; <u>S. Zedler</u> ; I. Hoteit; F. Yao
1:40 PM-6:00 PM, Hall A-C (Moscone South), PP33A. Climate Variability From High-Resolution Proxies III Posters	
1:40-1:40 PM	PP33A-2069. ENSO variability in the western tropical Pacific during the 20 th and 14 th centuries: preliminary results from a ~700 year coral <u>M.K. Gorman</u> ; T.M. Quinn; F.W. Taylor; C. Shen; C.R. Maupin; C. Wu
1:40-1:40 PM	PP33A-2093. Construction of high-resolution trace element time-series in slow growth speleothems by LA-ICP-MS: Importance of parameter optimization and oriented band fabric imagery <u>N.R. Miller</u> ; R.E. Griffiths; J.L. Banner
1:40-1:40 PM	PP33A-2101. Investigating ENSO Variability in the mid-Holocene using a Fossil Coral from the South Pacific <u>M.A. Vara</u> ; T.M. Quinn; F.W. Taylor; J.W. Partin; M.K. Gorman; C.R. Maupin; R. Edwards; H. Cheng; M. Inoue; D. Nakedau
1:40-1:40 PM	PP33A-2102. Toward a three-century reconstruction of climate variability from a slow-growing coral in the Western Province, Solomon Islands <u>C.R. Maupin</u> ; T.M. Quinn; F.W. Taylor; k. lin; C. Shen
1:40 PM-6:00 PM, Hall A-C (Moscone South), S33B. Slow Slip and Tremor I Posters	
1:40-1:40 PM	S33B-2532. Revised Geometry for the Hikurangi Subduction Thrust, New Zealand: Application to Slow Slip Event Inversions and Hydrological Modeling on the Hikurangi Subduction Interface <u>C.A. Williams</u> ; S.M. Ellis; K. Marson-Pidgeon; D. Eberhart-Phillips; L. Wallace; R.J. Beavan; D.H. Barker; S.A. Henrys; M. Reyners; R. Sutherland
1:40 PM-6:00 PM, Hall A-C (Moscone South), T33A. Controls on Seismicity and Fault Rupture in Low-Strain Intraplate Regions II Posters	
1:40-1:40 PM	T33A-2651. History of Deformation Along the Meeman-Shelby Fault near Memphis, Tennessee <u>Y. Hao</u> ; M. Magnani; L. Guo; K.D. McIntosh

1:40 PM-6:00 PM, Hall A-C (Moscone South), T33D. Lithospheric Structure and Tectonics of Eastern Tibet, East China, Indochina, and Adjacent Seas I Posters

1:40-1:40 PM	T33D-2688. Crustal structure beneath NE China imaged by NECESSArray receiver function data <u>K. Tao</u> ; H. Liu; F. Niu; J. Ning; Y.J. Chen; S. Grand; H. Kawakatsu; S. Tanaka; M. Obayashi; J.F. Ni
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1:40-1:40 PM	T33D-2690. Spatial variation and azimuthal anisotropy of the Rayleigh phase velocity beneath Northeast China revealed by ambient noise eikonal tomography: results and implications <u>J. Han</u> ; J. Ning; Y.J. Chen; F. Niu; S. Grand; H. Kawakatsu; S. Tanaka; M. Obayashi; J.F. Ni
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1:40-1:40 PM	T33D-2691. Shear-wave anisotropy beneath Northeast China observed by the NECESSArray <u>F. Niu</u> ; X. Zhang; S. Grand; J.F. Ni; Y.J. Chen; J. Ning; H. Kawakatsu; S. Tanaka; M. Obayashi
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1:40-1:40 PM	T33D-2692. Crustal structure beneath NE China from ambient noise tomography of NECESSArray <u>G. Zhen</u> ; Y.J. Chen; J. Ning; W. He; X. Wang; Y. Feng; S. Grand; F. Niu; H. Kawakatsu; S. Tanaka; M. Obayashi; J.F. Ni
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1:40 PM-6:00 PM, Hall A-C (Moscone South), T33E. Lithospheric Structure and Tectonics of Eastern Tibet, East China, Indochina, and Adjacent Seas II Posters

1:40-1:40 PM	T33E-2711. Crustal deformation in the Western Solomon Islands revealed by GPS observation during 2009 - 2012 <u>Y. Kuo</u> ; K. Lin; C. Ku; F.W. Taylor; Y. Chen; B. Huang
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1:40 PM-6:00 PM, Hall A-C (Moscone South), T33G. Plate Tectonics on a Convective Mantle: From Crystal-Scale Processes to Global Data and Models II Posters

1:40-1:40 PM	T33G-2745. Rheology of Two-Phase Systems <u>J.P. Platt</u> ; W.M. Behr
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1:40 PM-3:40 PM, 3018 (Moscone West), H33M. Anomalous Transport, Mixing, and Reaction in Hydrological Systems II

2:40-2:55 PM	H33M-05. Hyperbolic theory for pH-dependent adsorption in reactive transport in porous media <u>V. Prigiobbe</u> ; M.A. Hesse; S.L. Bryant
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1:40 PM-3:40 PM, 3016 (Moscone West), H33L. Advances in Geochemical and Hydrogeological Studies of CO₂ Fate and Transport at Geological CO₂ Sequestration Sites IV

3:10-3:25 PM	H33L-07. Assessing Potential Impacts of CO ₂ Leakage on Shallow Groundwater Quality in the SECARB Phase III Early Test site Using Single-well Push-Pull Tests <u>C. Yang</u> ; P.J. Mickler; R.C. Reedy; B.R. Scanlon
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1:40 PM-3:40 PM, 3007 (Moscone West), C33E. Modeling of Glaciers and Ice Sheets II

3:25-3:40 PM (Conflict)	C33E-08. A novel method of basal crevasse height estimation and subsequent rifting L. Logan ; G.A. Catania; L.L. Lavier; E. Choi
1:40 PM-3:40 PM, 3016 (Moscone West), H33L. Advances in Geochemical and Hydrogeological Studies of CO2 Fate and Transport at Geological CO2 Sequestration Sites IV	
3:25-3:40 PM (Conflict)	H33L-08. Low temperature-pressure batch experiments and field push-pull tests: Assessing potential effects of an unintended CO2 release from CCUS projects on groundwater chemistry. P.J. Mickler ; C. Yang; J. Lu; R.C. Reedy; B.R. Scanlon
4:00 PM-6:00 PM, 307 (Moscone South), S34A. Induced Seismicity: Attribution and Triggering I	
4:00-4:20 PM (Conflict)	S34A-01. A Two-year Survey Comparing Earthquake Activity and Injection Well Locations in the Barnett Shale, Texas C.A. Frohlich
4:00 PM-6:00 PM, 308 (Moscone South), T34A. Arctic Tectonics: From Basins to Mountain Belts II	
4:00-4:15 PM (Conflict)	T34A-01. Impact of a fixed Siberian Traps mantle plume on the tectonics of the Arctic L.A. Lawver ; I.O. Norton; L. Gahagan
4:00 PM-6:00 PM, 2007 (Moscone West), P34A. Internal Structure and Composition of Small Solar System Bodies II	
4:45-5:00 PM	P34A-04. The Composition of the Dwarf Planet Ceres (Invited) A. Rivkin ; J.Y. Li; R.E. Milliken; L.F. Lim; A. Lovell; B.E. Schmidt; L.A. McFadden
4:00 PM-6:00 PM, 2003 (Moscone West), EP34A. Advances in Numerical Modeling of River Fluxes Under Changing Environmental Conditions II	
5:30-5:45 PM (Conflict)	EP34A-07. Numerical model of the lowermost Mississippi River as an alluvial-bedrock reach: preliminary results E. Viparelli ; J.A. Nittrouer; D.C. Mohrig; G. Parker
4:00 PM-6:00 PM, 2008 (Moscone West), PP34B. Tropical Hydrology and the Hadley Circulation in Past Climates III	
5:30-5:45 PM (Conflict)	PP34B-07. Large Changes in Glacial Rainfall Captured in a Stalagmite from the Southern Tropical Pacific Ocean: A High-Resolution Sr Record from the Island of Niue (Invited) D.J. Sinclair ; H.D. Rowe; R.M. Sherrell; J. Hellstrom; J.D. Wright; R.A. Mortlock; R. Edwards; H. Cheng

Thursday, December 06, 2012

Time	Session Info
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8:00 AM-12:20 PM, Hall A-C (Moscone South), B41C.* Improving Terrestrial Biogeochemical Models Through Integrating Models With Data III Posters	
8:00-8:00 AM	Abstract Withdrawn
8:00 AM-12:20 PM, Hall A-C (Moscone South), B41D. Linking the Terrestrial and Aquatic Carbon Cycles II Posters	
8:00-8:00 AM	B41D-0320. Rapid Photomineralization of Dissolved Organic Carbon Flowing from Large Arctic Rivers to the Arctic Ocean <u>S. Tank</u> ; P.J. Mann; K. Hoering; E.B. Bulygina; R.G. Spencer; Z. Wang; J.W. McClelland; P. Raymond; R.M. Holmes
8:00 AM-12:20 PM, Hall A-C (Moscone South), ED41B. EarthScope in Geoscience Education and Outreach Posters	
8:00-8:00 AM	ED41B-0678. Promoting seismology education through collaboration between university research scientists and school teachers <u>M.R. Brunt</u> ; K.K. Ellins; D. Boyd; A.S. Mote; J. Pulliam; C.A. Frohlich
8:00 AM-12:20 PM, Hall A-C (Moscone South), EP41B. Linking Geomorphology and Morphodynamics to Sediment Budgets, Sediment Caliber, and the Stratigraphic Record I Posters	
8:00-8:00 AM	EP41B-0782. Combining Seismic Geomorphology and Physical Sedimentology to Resolve Depositional Processes within Submarine Channel Bends <u>A.M. Fernandes</u> ; D. Mohrig; A.L. Petter; R.J. Steel; S. Henriksen
8:00-8:00 AM	EP41B-0785. Examining variability in preserved topography of linear dunes on a salt substrate <u>A. Piliouras</u> ; W. Kim; G. Kocurek; D.C. Mohrig; J. Kopp
8:00-8:00 AM	Abstract Withdrawn
8:00 AM-12:20 PM, Hall A-C (Moscone South), G41A. Mass Transport and Mass Distribution in the Earth System I Posters	
8:00-8:00 AM	G41A-0878. Canadian Arctic Islands Mass Change Rates from Satellite Gravity Measurements <u>W.R. Neely</u> ; C.R. Wilson; J. Chen
8:00-8:00 AM	G41A-0881. Determination of Long-Term Oceanic Mass Change in a Coherent System <u>J. Chen</u>
8:00 AM-12:20 PM, Hall A-C (Moscone South), GC41A. Natural- and Human-induced Changes in Global Water Cycle and Implications for Water Resources II Posters	
8:00-8:00 AM	GC41A-0959. Simulating reservoir operations in California for use in a coupled land-surface and human impacts model (CLM-HUM) <u>K. Solander</u> ; J. Edman; M. Lo; J.T. Reager; B. Thomas; C. David; J.S. Famiglietti; R.S. Singh; N.L. Miller

8:00 AM-12:20 PM, Hall A-C (Moscone South), H41C. Geological CO2 Storage Monitoring From Injection Zone to Vadose Zone: Characterization, Detection Methods, and Field Applications I Posters	
8:00-8:00 AM	H41C-1184. How far does the CO2 travel beyond a leaky point? <u>X. Kong</u> ; M. Delshad; M. Wheeler
8:00-8:00 AM	H41C-1191. Using Analytical and Numerical Modeling to Assess the Utility of Groundwater Monitoring Parameters at Carbon Capture, Utilization, and Storage Sites <u>S.L. Porse</u> ; S.D. Hovorka; M. Young; M. Zeidouni
8:00-8:00 AM	H41C-1193. Above-zone temperature variations due to CO2 leakage from the storage aquifer <u>M. Zeidouni</u> ; S. Hosseini; J. Nicot
8:00-8:00 AM	H41C-1194. Time-lapse compressibility monitoring of CO2 leakage in above zone monitoring interval <u>S. Hosseini</u> ; M. Zeidouni
8:00 AM-12:20 PM, Hall A-C (Moscone South), H41D. Hydrological Modeling Under Nonstationarity I Posters	
8:00-8:00 AM	H41D-1197. Comparison of changes in groundwater recharge under projected future climates in the US High Plains aquifer and the Australian Murray-Darling Basin <u>R. Crosbie</u> ; B.R. Scanlon; F.S. Mpelasoka; R.C. Reedy; L. Zhang
8:00 AM-12:20 PM, Hall A-C (Moscone South), H41E. Nonpoint Source Fluxes in the Vadose Zone and Groundwater I Posters	
8:00-8:00 AM	H41E-1224. Fate and Transport of Pharmaceutical Compounds Applied to Turf-Covered Soil <u>M. Young</u> ; R.L. Green; D. Devitt; M. McCullough; L. Wright; B.J. Vanderford; S.A. Snyder
8:00 AM-12:20 PM, Hall A-C (Moscone South), H41G. Threshold Hydrology: Hydrotopographic Analysis and Modeling Posters	
8:00-8:00 AM	H41G-1256. Sharp landscape features and their role in predictive hydrology and geomorphology <u>P. Belmont</u> ; E. Foufoula; P. Passalacqua
8:00 AM-12:20 PM, Hall A-C (Moscone South), OS41C. Ocean Observing Systems: Challenges and Successes I Posters	
8:00-8:00 AM	OS41C-1747. Using an autonomous passive acoustic observational system to monitor the environmental impact of the Gulf of Mexico oil spill on deep-diving marine mammals <u>N. Sidorovskaia</u> ; A. Ackleh; B. Ma; C. Tiemann; J.W. Ioup; G.E. Ioup
8:00 AM-12:20 PM, Hall A-C (Moscone South), S41A. Seismic Tomography Across the Scales V Posters	

8:00-8:00 AM	S41A-2376. First-break Traveltime Tomography Using the Double-square-root Eikonal Equation <u>S. Li</u> ; S. Fomel; A. Vladimirovsky
8:00-8:00 AM	S41A-2401. Lithospheric drips beneath the SE edge of the Tibetan Plateau Imaged by finite frequency tomography Y. Sun; <u>F. Niu</u> ; J. Liu; Y. Tang
8:00 AM-12:20 PM, Hall A-C (Moscone South), SM41A. Inner Magnetosphere Dynamics III Posters	
8:00-8:00 AM	SM41A-2202. Simulations of Drift Waves at the Plasmapause <u>X. Fu</u> ; W. Horton
8:00 AM-12:20 PM, Hall A-C (Moscone South), T41A. Active Caribbean Plate Margins: Integrating Studies for Earthquake and Tsunami Hazard II Posters	
8:00-8:00 AM	T41A-2576. Seismic structure of the Central American subduction system through Costa Rica: Results from active-source seismic data <u>E.D. Everson</u> ; W. Holbrook; D. Lizarralde; H.J. Van Avendonk; P. Denyer
8:00 AM-10:00 AM, 308 (Moscone South), T41E. Connections Between Long-Term and Short-Term Tectonics and Geodynamics I	
8:00-8:15 AM	T41E-01. Relationships between plate convergence, the earthquake cycle, and long-term accumulation of net tectonic deformation at island arcs; not so simple as it seems (Invited) <u>F.W. Taylor</u> ; L.L. Lavier; M.G. Bevis; K. Thirumalai; C.A. Frohlich
8:00 AM-10:00 AM, 305 (Moscone South), S41D. Slow Slip and Tremor II	
9:00-9:15 AM	S41D-05. Spatial and temporal relationships between slip, tectonic tremor, and triggered earthquakes during the 2010-2011 SSE sequence in the Hikurangi subduction zone, New Zealand <u>N.M. Bartlow</u> ; R.J. Beavan; L.M. Wallace; S.C. Bannister; A. Wech; P. Segall
8:00 AM-10:00 AM, 3020 (Moscone West), H41K. Hydrogeophysics: Lab to Field Scale Characterization II	
9:15-9:30 AM <u>(Conflict)</u>	H41K-06. Applications of electrical resistivity imaging for characterizing groundwater-surface water interactions from local to regional scales (Invited) <u>M.B. Cardenas</u> ; K.M. Befus; P.B. Zamora; J. Ong; V.A. Zlotnik; P.L. Cook; D.R. Tait; D. Eler; I.R. Santos; F.P. Siringan
8:00 AM-10:00 AM, 3024 (Moscone West), OS41E. Fluid Flow and Gas Hydrates in Continental Margins I	

9:15-9:30 AM (Conflict)	OS41E-06. Newly discovered abundant fluid seep indicators off southern Costa Rica, imaged from overlapping multibeam swaths and 3D seismic data J.W. Kluesner ; E.A. Silver ; J.C. Gibson ; N.L. Bangs ; K. McIntosh ; R. von Huene ; D. Orange ; C.R. Ranero
8:00 AM-10:00 AM, 309 (Moscone South), T41F. Lithospheric Structure and Tectonics of Eastern Tibet, East China, Indochina, and Adjacent Seas III	
9:15-9:30 AM (Conflict)	T41F-06. Seismic evidence for possible lithospheric drips beneath the Greater Xiang'an Range by NECESSArray Y.J. Chen ; Y. Tang ; S.P. Grand ; F. Niu ; H. Kawakatsu ; J. Ning ; S. Tanaka ; M. Obayashi ; J. Du ; J.F. Ni
10:20 AM-12:20 PM, 103 (Moscone South), P42A. * Lunar Science in the Wake of Human Exploration: Four Decades of Samples and Surface Data I (Video On-Demand)	
10:34-10:44 AM	P42A-02. Long-lasting Science Returns from the Apollo Heat Flow Experiments S. Nagihara ; P.T. Taylor ; D.R. Williams ; K. Zacny ; M. Hedlund ; Y. Nakamura
10:20 AM-12:20 PM, 3024 (Moscone West), OS42A. Fluid Flow and Gas Hydrates in Continental Margins II	
10:50-11:05 AM	OS42A-03. Hydrocarbon flux from natural deepwater Gulf of Mexico vents P.B. Flemings ; A.J. Smith
10:20 AM-12:20 PM, 2011 (Moscone West), SA42A. The Equatorial Ionosphere: Drivers and Coupling Processes II	
11:55-12:08 PM	Abstract Withdrawn
12:30 PM-1:30 PM, 2010 (Moscone West), TH42I. New Lidar Technologies and Vision for the Future	
12:30-1:30 PM	New Lidar Technologies and Vision for the Future P. Passalacqua ; M.E. Oskin ; C. Crosby ; C.L. Glennie
1:40 PM-6:00 PM, Hall A-C (Moscone South), B43A. Coevolution of the Geosphere and Biosphere: Cosponsored by MSA I Posters	
1:40-1:40 PM	B43A-0382. Mineralogical controls on surface colonization by sulfur-metabolizing microbial communities A.A. Jones ; P. Bennett
1:40-1:40 PM	B43A-0383. Cinder Pool's Sulfur Chemistry: Implications for the Origin of Life in Hydrothermal Environments L. Sydow ; P. Bennett ; D. Nordstrom
1:40 PM-6:00 PM, Hall A-C (Moscone South), B43I. Weird Biosphere of Silicon-Utilizing Organisms Posters	

1:40-1:40 PM	B43I-0542. Physicochemical and Biological Zonation of High Temperature Silica and Arsenic-Rich Streams at El Tatio Geyser Field, Chile <u>K.D. Myers</u> ; A.S. Engel; C.R. Omelon; P. Bennett
1:40 PM-6:00 PM, Hall A-C (Moscone South), C43C. Glacier, Ice Cap, and Ice Sheet Hydrology: Storage, Transport, and Impacts II Posters	
1:40-1:40 PM	C43C-0620. Subglacial channel evolution observed in western Greenland from moulin water level and GPS-derived surface velocities <u>L.C. Andrews</u> ; G.A. Catania; M.J. Hoffman; R.L. Hawley; M.P. Luethi; T. Neumann
1:40-1:40 PM	C43C-0630. Configuration of Subglacial Water and Sediments Beneath Thwaites Glacier, West Antarctica: Context for a Potential Basal-Water-Triggered Grounding-Line-Retreat <u>D.M. Schroeder</u> ; D.D. Blankenship; D.A. Young; E. Powell
1:40-1:40 PM	C43C-0634. Evolution of Hydraulic Roughness During Early Stages of Conduit Growth: Effects on Conduit Enlargement Rates <u>J.D. Gulley</u> ; P. Spellman; M.D. Covington; J.B. Martin; D. Benn; G.A. Catania
1:40 PM-6:00 PM, Hall A-C (Moscone South), G43B. Plate Motion and Continental Deformation IV Posters	
1:40-1:40 PM	G43B-0939. Retrieving coseismic signature with northern gravity gradient changes in GRACE solutions <u>J. Li</u> ; W. Shen; J. Chen
1:40 PM-6:00 PM, Hall A-C (Moscone South), GC43C.* Interpretation and Uncertainty Quantification of Climate and Integrated Earth System Models III Posters	
1:40-1:40 PM	GC43C-1041. Structural diversity, degree of freedom, and reliability in climate model ensembles <u>T. Yokohata</u> ; J.D. Annan; M. Collins; C.S. Jackson; H. Shiogama; M. Watanabe; S. Emori ; M. Yoshimori; M. Abe; M. Webb; J.C. Hargreaves
1:40 PM-6:00 PM, Hall A-C (Moscone South), H43A. Advances in Hydrometeorological Predictions and Applications III Posters	
1:40-1:40 PM	H43A-1302. Evaluation of Monthly Precipitation Forecasting Skill of the National Multi-Model Ensemble <u>H. Wang</u>
1:40 PM-6:00 PM, Hall A-C (Moscone South), H43F. Surface Hydrology Posters	
1:40-1:40 PM	H43F-1443. Remote Measurements of American River Morphology Elucidate Downstream Hydraulics and River-Groundwater Interactions <u>B. Kiel</u> ; L. Wood
1:40 PM-6:00 PM, Hall A-C (Moscone South), MR43B. Electronic Structure and Elasticity of Earth Minerals I Posters	
1:40-1:40 PM	MR43B-2304. Electron spin transition causing structure transformations of earth's interiors under high pressure <u>T. Yamanaka</u> ; A. Kyono; S. Kharlamova; E. Alp; W. Bi; H. Mao

1:40-1:40 PM	MR43B-2305. Spin state of iron and elastic properties of (MgFe)(SiAl)O ₃ under conditions of the lower mantle. <u>K. Glazyrin</u> ; T. Boffa Ballaran; D.J. Frost; C.A. McCammon; A. Kantor; M. Merlini; M. Hanfland; L.S. Dubrovinsky
1:40-1:40 PM	MR43B-2306. Aluminous ferro-magnesium silicate perovskite at lower mantle conditions <u>J. Chantel</u> ; D.J. Frost; D. Novella; G.M. Manthilake; Z. Jing; Y. Wang
1:40-1:40 PM	MR43B-2307. The Pressure-Volume-Temperature Equation of State of Iron-Rich (Mg,Fe)O <u>J.K. Wicks</u> ; J.M. Jackson; K.K. Zhuravlev; V. Prakapenka
1:40-1:40 PM	MR43B-2308. Theoretical Modeling for the X-ray Spectroscopy of Iron-bearing MgSiO ₃ under High Pressure <u>X. Wang</u> ; T. Tsuchiya
1:40-1:40 PM	MR43B-2309. The Effects of Spin Transition on Iron Diffusion in Ferropericlaase <u>D. Morgan</u> ; S. Saha; A.K. Bengtson; K.L. Crispin; J.A. Van Orman
1:40-1:40 PM	MR43B-2310. Influence of Mg component and pressure on magnetic ordering of (Mg,Fe)O <u>A. Fujii</u> ; T. Kondo; T. Taniguchi
1:40-1:40 PM	MR43B-2311. Lattice Dynamics of (Mg _{0.5} Fe _{0.5})O at High-Pressures <u>N.V. Solomatova</u> ; J.M. Jackson; W. Sturhahn; J.K. Wicks; W.M. Steinhardt; B. Chen
1:40-1:40 PM	Abstract Withdrawn
1:40-1:40 PM	MR43B-2313. Elastic and Vibrational Properties of FeO to 100 GPa <u>M.R. Diamond</u> ; J.K. Wicks; J.M. Jackson; W. Sturhahn; D. Zhang
1:40-1:40 PM	MR43B-2314. High-pressure Synchrotron Mössbauer Spectroscopy on Fe ₄ O ₅ <u>K. Kothapalli</u> ; T. Kolodziej; E. Alp; B. Lavina
1:40-1:40 PM	MR43B-2315. Measurements of the vacant sites in crystal structure of titanomagnetite by Mössbauer spectroscopy <u>C. Tomita</u> ; K. Shinoda
1:40-1:40 PM	MR43B-2316. Compositional dependence of elastic moduli for transition-metal oxide spinels <u>H.J. Reichmann</u> ; S.D. Jacobsen; T. Boffa Ballaran
1:40-1:40 PM	MR43B-2317. Elasticity and Structure of Chromite at High Pressure <u>S.R. Shieh</u> ; W. Yong; z. Mi; S.M. Botis; W. Shi; A.C. Withers
1:40-1:40 PM	MR43B-2318. Single crystal equation of state of phase D up to 64 GPa G. Garbarino; <u>A.D. Rosa</u> ; M. Mezouar; P. Bouvier; S. Ghosh; C. Sanchez-Valle
1:40-1:40 PM	MR43B-2319. Synchrotron Mössbauer study of Fe-bearing pyrope at high pressures and temperatures <u>Z. Mao</u> ; J. Lin; S. Huang; J. Chen; Y. Xiao; P. Chow

1:40-1:40 PM	MR43B-2320. P-V-T study of Na _{1.18} Mg _{1.59} Al _{4.78} Si _{1.33} O ₁₂ NAL phase <u>M.G. Pamato</u> ; T. Boffa Ballaran; D.J. Frost; A. Kurnosov; D.M. Trots
1:40-1:40 PM	MR43B-2321. Anisotropy at the edges of the mantle: shear wave splitting observations in the upper and lowermost mantle from around the globe <u>J. Walpole</u> ; J. Wookey; G. Masters; A. Nowacki; A.M. Walker
1:40-1:40 PM	MR43B-2322. Elasticity of diamond at high pressures and temperatures <u>M. Nunez Valdez</u> ; K. Umemoto; R.M. Wentzcovitch
1:40-1:40 PM	MR43B-2323. Magnetic transitions and Fe(II) spin state in mackinawite <u>C. Schroeder</u> ; M. Wan; S. Peiffer
1:40 PM-6:00 PM, Hall A-C (Moscone South), OS43A. Fluid Flow and Gas Hydrates in Continental Margins III Posters	
1:40-1:40 PM	OS43A-1795. Widespread Mega-Pockmarks Imaged Along the Western Edge of the Cocos Ridge <u>J.C. Gibson</u> ; J.W. Kluesner; E.A. Silver; N.L. Bangs; K.D. McIntosh
1:40 PM-6:00 PM, Hall A-C (Moscone South), PP43A. Taking the Temperature of the Quaternary II Posters	
1:40-1:40 PM	PP43A-2007. Centennial- to millennial-scale variability of surface ocean temperature and salinity in the Northern Gulf of Mexico during the late Holocene <u>K. Thirumalai</u> ; T.M. Quinn; C. Reynolds; J.A. Flannery
1:40-1:40 PM	PP43A-2008. Assessing seasonal temperature variability from Mg/Ca and $\delta^{18}\text{O}$ in Globigerinoides ruber from the Northern Gulf of Mexico <u>D. Khider</u> ; T.M. Quinn; C. Reynolds
1:40 PM-6:00 PM, Hall A-C (Moscone South), T43A. Connections Between Long-Term and Short-Term Tectonics and Geodynamics II Posters	
1:40-1:40 PM	T43A-2646. Coral record of paleoseismic uplifts at Ranongga Island, Western Solomon Islands megathrust: Was the 2007 Mw 8.1 event smaller than usual? F.W. Taylor; <u>K. Thirumalai</u> ; C. Shen; C. WU; A. Papabatu; L.L. Lavier; M.G. Bevis
1:40 PM-6:00 PM, Hall A-C (Moscone South), T43B. Evolution, Structure, and Sedimentary Record of the South China Sea II Posters	
1:40-1:40 PM	T43B-2656. Rift Structure and Distribution of Magmatic Activity of the Southern Chinese Continental Margin Offshore Southern Taiwan from Reflection Imaging, Travel-time Tomography and 1D Thermal Modeling <u>R. Lester</u> ; K.D. McIntosh; L.L. Lavier; H.J. Van Avendonk
1:40-1:40 PM	T43B-2673. Milestones in arc-continent collision evolution: The transition from intra-oceanic subduction to incipient collision <u>D.H. Eakin</u> ; K.D. McIntosh; H.J. Van Avendonk; L.L. Lavier

1:40 PM-6:00 PM, Hall A-C (Moscone South), T43C. Magmatism and Extension During Continental Rifting II Posters	
1:40-1:40 PM	T43C-2693. Nature of the Mantle Sources and Bearing on Tectonic Evolution in the West Antarctic Rift System <u>S.B. Mukasa</u> ; S. Rilling-Hall; M.C. Marciano; T.J. Wilson; L.A. Lawver; W.E. LeMasurier
1:40-1:40 PM	T43C-2694. Rapid onset of narrowing and along-strike propagation of an intra-arc rift: The Taupo Rift, New Zealand <u>P. Villamor</u> ; K.R. Berryman; S.M. Ellis; G. Schreurs; L.M. Wallace; G. Leonard; R.M. Langridge; I.A. Nairn
1:40-1:40 PM	T43C-2699. Two styles of faulting associated with metamorphic core complexes: Importance of initial crustal configuration and mid-crustal flow <u>G. Wu</u> ; L.L. Lavier; E. Choi
1:40 PM-6:00 PM, Hall A-C (Moscone South), T43E. Tectonic Mechanisms for Extension Along Convergent Margins II Posters	
1:40-1:40 PM	T43E-2725. A dense, intersecting array of normal faults on the outer shelf off Southern Costa Rica, associated with subducting Quepos ridge <u>E.A. Silver</u> ; J.W. Kluesner; J.C. Gibson; N.L. Bangs; K.D. McIntosh; R. von Huene; D. Orange; C.R. Ranero
1:40 PM-6:00 PM, Hall A-C (Moscone South), V43A.* From Deep to Shallow: Elemental Cycling Through UHP Metamorphism and Serpentinization I Posters	
1:40-1:40 PM	V43A-2809. The Serpentinites from the Coastal Cordillera of South-Central Chile - A Preliminary Report <u>F. Barra</u> ; J. Barnes; M. Reich
1:40 PM-6:00 PM, Hall A-C (Moscone South), V43C.* The Geophysics and Geochemistry of Terrestrial Environments: Fluids, Subduction Zones, Metasomatism, Ore Deposits, Igneous Bodies, and Meteorites V Posters: Cosponsored by MSA	
1:40-1:40 PM	V43C-2854. Chlorine isotope geochemistry of hydrothermally altered oceanic crust: Mineralogical controls and experimental constraints <u>M. Cisneros</u> ; J. Barnes; D.M. Jenkins; J.E. Gardner
1:40 PM-3:40 PM, 3024 (Moscone West), OS43F. Marine Geological Processes, Present and Past I	
2:10-2:25 PM	OS43F-03. Tectonic Control on Deposition and Evolution of the Baranof Fan, Gulf of Alaska <u>M.A. LeVoi</u> ; S.S. Gulick; R.S. Reece; G.A. Barth; G.L. Christeson
1:40 PM-3:40 PM, 3007 (Moscone West), C43G. Geological Controls on Ice Dynamics II	
2:25-2:40 PM <u>(Conflict)</u>	C43G-04. Evidence for heterogeneous (and possibly transient) geothermal flux beneath the Ross-Amundsen ice divide of the West Antarctic ice sheet (Invited) <u>D.D. Blankenship</u> ; H.A. Danque; E. Quartini; D.A. Young

1:40 PM-3:40 PM, 306 (Moscone South), T43G. Formation and Reactivation of Rifted Margins I	
2:25-2:40 PM (Conflict)	T43G-04. A Community Seismic Experiment in the ENAM Primary Site (Invited) <u>H.J. Van Avendonk</u>
1:40 PM-3:40 PM, 2018 (Moscone West), NS43A. Geophysical Imaging of Fractures and Fluid Flow: Advancing From Detection to Measurement I	
2:40-2:55 PM	NS43A-05. Crosswell Magnetic Sensing of Superparamagnetic Nanoparticles for Subsurface Applications <u>A. Rahmani</u> ; A. Athey; M. Wilt; J. Chen
1:40 PM-3:40 PM, 2008 (Moscone West), EP43E. Rock to Sediment: Biotic, Lithologic, and Climatic Controls on Regolith Production, Mixing, and Transport II	
2:55-3:10 PM (Conflict)	EP43E-06. Climate-dependent sediment production: numerical modeling and field observations of variable grain size distributions from heterogeneous hillslope weathering of fractured basalt flows, Kohala Peninsula, Hawaii <u>B.P. Murphy</u> ; J.P. Johnson
1:40 PM-3:40 PM, 306 (Moscone South), T43G. Formation and Reactivation of Rifted Margins I	
2:55-3:10 PM (Conflict)	T43G-06. Inversion of a hyper-extended rifted margin in the southern Central Range of Taiwan (Invited) <u>K.D. McIntosh</u> ; H.J. Van Avendonk; L.L. Lavier; R. Lester; D.H. Eakin; F.T. Wu
1:40 PM-3:40 PM, 3007 (Moscone West), C43G. Geological Controls on Ice Dynamics II	
3:10-3:25 PM (Conflict)	C43G-07. Conditional simulation of Thwaites Glacier bed topography for flow models: Incorporating inhomogeneous statistics and channelized morphology <u>J.A. Goff</u> ; E. Powell; D.A. Young; D.D. Blankenship
1:40 PM-3:40 PM, 2003 (Moscone West), EP43D. Linking Geomorphology and Morphodynamics to Sediment Budgets, Sediment Caliber, and the Stratigraphic Record III	
3:10-3:25 PM (Conflict)	EP43D-07. Building the coastline: Linking study of the modern and ancient depositional environments to predict the response of Mississippi River delta to environmental change <u>D.C. Mohrig</u> ; C. Armstrong
1:40 PM-3:40 PM, 3014 (Moscone West), H43L. Water Contamination and Water Quality in River Systems II	
3:10-3:25 PM (Conflict)	H43L-07. A Stochastic Multi-Media Model of Microbial Transport in Watersheds <u>L. Yeghiazarian</u> ; A. Safwat; T. Whiteaker; A. Teklitz; C. Nietch; D.R. Maidment; E.P. Best
4:00 PM-6:00 PM, 3003 (Moscone West), GC44D. Variations in Surface Wind Patterns and the Walker Circulation: Observations and Model Predictions I	

4:00-4:15 PM	GC44D-01. Regional patterns of surface wind change over the tropical Indo-Pacific: Evidence of the Walker circulation slowdown (Invited) <u>H. Tokinaga</u> ; <u>S. Xie</u> ; A. Timmermann; S. McGregor; T. Ogata; H. Kubota; Y. Okumura
4:00 PM-6:00 PM, 3024 (Moscone West), OS44A. Marine Geological Processes, Present and Past II	
4:15-4:30 PM	OS44A-02. Post-failure Transport Behavior and Deposit Morphology in Subaqueous Mudflow Experiments: Interpreting Failure Process from Morphology <u>D.E. Sawyer</u> ; <u>P.B. Flemings</u> ; D.C. Mohrig; J.L. Buttles
4:30-4:45 PM	OS44A-03. Genesis and Evolution of a Mid-shelf, Storm-built Sand Ridge, New Jersey Shelf, USA <u>J.W. Snedden</u> ; <u>S.J. Culver</u> ; R.W. Tillman
4:00 PM-6:00 PM, 2010 (Moscone West), PP44A. Data-Modeling Reconstruction of Global Climate Over the Last 21,000 Years II	
5:15-5:30 PM	PP44A-06. Changing amounts and sources of moisture to the U.S. southwest in response to global climate change (Invited) <u>W. FENG</u> ; B.F. Hardt; J.L. Banner; K.J. Meyer; E. James; M. Musgrove
4:00 PM-6:00 PM, 3016 (Moscone West), H44B. Geological CO2 Storage Monitoring From Injection Zone to Vadose Zone: Characterization, Detection Methods, and Field Applications II	
5:30-5:45 PM	H44B-07. Inversion of Pressure Anomaly Data for CO2 Leakage Detection at Geologic Carbon Sequestration Sites <u>A.Y. Sun</u> ; J. Nicot

Friday, December 07, 2012

Time	Session Info
8:00 AM-12:20 PM, Hall A-C (Moscone South), A51A.* Aerosol Observations at High Elevation II Posters	
8:00-8:00 AM	A51A-0006. Seasonal and Diurnal Variation of Aerosol Extinction Profile and Type Distribution from CALIPSO 5-year Observations <u>L. Huang</u> ; <u>J.H. Jiang</u> ; H. Su; R. Fu; J.L. Tackett
8:00 AM-12:20 PM, Hall A-C (Moscone South), C51A. CryoSat-2: Science and Validation I Posters	
8:00-8:00 AM	C51A-0765. CryoSat-2 validation in East Antarctica: ASIRAS, ALS and in situ data analysis over Law Dome and Totten Glacier. <u>C. Watson</u> ; R.J. Burgette; V. Helm; J.L. Roberts; N.W. Young; J. Beardsley; P. Tregoning; R. Coleman; D. Steinhage; H.A. Fricker; D.A. Young; D.D. Blankenship

8:00 AM-12:20 PM, Hall A-C (Moscone South), EP51A. Do Characteristic Landscape Features Correspond to a Unique Process? I Posters	
8:00-8:00 AM	EP51A-0971. Geometric aeolian dune crest migration model <u>T. Swanson</u> ; D.C. Mohrig; G. Kocurek; A. Pedersen
8:00 AM-12:20 PM, Hall A-C (Moscone South), EP51B. River Morphodynamics and Channel Patterns: How Do River Patterns Come to be Different? I Posters	
8:00-8:00 AM	EP51B-0987. Statistical Analysis of Depth Connectivity within Single Thread Meandering Riverine Systems <u>M.J. Czapiga</u> ; J.A. Nittrouer; V.B. Smith; D.C. Mohrig; G. Parker
8:00-8:00 AM	EP51B-0996. Analysis of floodplain storage and sedimentation in the middle Araguaia River, an anabranching system of central Brazil <u>K.B. Lininger</u> ; E.M. Latrubesse; M. Bayer
8:00-8:00 AM	EP51B-0998. Morphosedimentary dynamics of the Madeira River in Brazil <u>C. Bonthius</u> ; E.M. Latrubesse; J.D. Abad
8:00-8:00 AM	EP51B-0999. Poster: Recent Total Effective Discharge of the Lower Mississippi River below Old River Control <u>R.L. Knox</u> ; E.M. Latrubesse
8:00 AM-12:20 PM, Hall A-C (Moscone South), H51J. Water Quality and Quantity in Urban Systems Posters	
8:00-8:00 AM	H51J-1502. Geochemical Indicators of Urban Development in Tributaries and Springs along the Bull Creek Watershed, Austin, TX <u>J.J. Senison</u> ; J.L. Banner; D. Reyes; J.M. Sharp
8:00 AM-12:20 PM, Hall A-C (Moscone South), NS51A. Exploring the High-Resolution Record of Surface Processes in Near-Shore and Inshore Water Bodies Posters	
8:00-8:00 AM	NS51A-1823. Developing Age Models to Utilize High Arctic Coastal Sediments for Paleoclimate Research: Results from the Colville Delta and Simpson Lagoon, Alaska <u>A.J. Miller</u> ; M.A. Allison; T.S. Bianchi; F. Marcantonio
8:00 AM-12:20 PM, Hall A-C (Moscone South), OS51B. Marine Geological Processes, Present and Past III Posters	
8:00-8:00 AM	OS51B-1855. Seafloor morphology and high-energy processes, Northern Carnarvon Basin, Australia <u>J.G. Graf</u> ; C. Fulthorpe; J.A. Austin
8:00-8:00 AM	OS51B-1874. Global Sea-level Changes Revealed in the Sediments of the Canterbury Basin, New Zealand: IODP Expedition 317 <u>C.M. McHugh</u> ; C. Fulthorpe; P. Blum; J. Rios; Y. Chow; K. Mishkin
8:00 AM-12:20 PM, Hall A-C (Moscone South), OS51E. Science at Sea: Innovative Results From the Oceanographic Research Fleet I Posters	

8:00-8:00 AM	OS51E-1939. INFLUENCE OF FLOOD AND DROUGHT CONDITIONS ON DISSOLVED ORGANIC MATTER DISTRIBUTION IN NORTHERN GULF OF MEXICO SHELF WATERS <u>G.C. Shank</u> ; Q. Liu; L. Patterson; P. Kowalczyk
8:00 AM-12:20 PM, Hall A-C (Moscone South), P51A.* Origins, Evolutions, and Processes of the Outer Planet Satellites I Posters	
8:00-8:00 AM	P51A-2024. Orbital detectability of thermal signatures associated with active formation of 'chaos terrain' on Europa <u>O. Abramov</u> ; J.A. Rathbun; B.E. Schmidt; J.R. Spencer
8:00 AM-12:20 PM, Hall A-C (Moscone South), PP51B. Linking Marine and Terrestrial Records of Past Climate Change III Posters	
8:00-8:00 AM	PP51B-2117. Investigating climate links between central Texas and the Gulf of Mexico during the mid to late Holocene using speleothem proxies <u>C.I. Wong</u> ; J.L. Banner
8:00 AM-12:20 PM, Hall A-C (Moscone South), S51E. Understanding Recent and Historical Seismicity in the Central and Eastern U.S. I Posters	
8:00-8:00 AM	S51E-2454. Felt reports and intensity maps for two M4.8 Texas earthquakes: 17 May 2012 near Timpson and 20 October 2011 near Fashing <u>M.R. Brunt</u> ; W.A. Brown; C.A. Frohlich
8:00 AM-12:20 PM, Hall A-C (Moscone South), SA51B. The Equatorial Ionosphere: Drivers and Coupling Processes III Posters	
8:00-8:00 AM	SA51B-2173. A Unified Fluid Model for Low-latitude Ionosphere Turbulence Causes Radiowave Scintillations <u>E. Hassan</u> ; W. Horton
8:00 AM-12:20 PM, Hall A-C (Moscone South), T51A. Formation and Reactivation of Rifted Margins II Posters	
8:00-8:00 AM	T51A-2547. The Formation of a Retroarc Fold-Thrust Belt by the Closure and Inversion of a Back-Arc Basin; Patagonian-Fuegian Fold-Thrust Belt, Chile <u>P. Betka</u> ; K.A. Klepeis; S. Mosher
8:00 AM-12:20 PM, Hall A-C (Moscone South), T51D. The Dynamics of Island Arcs and Backarc Spreading Centers I Posters	
8:00-8:00 AM	T51D-2625. New geophysical constraints on the tectonic history of the Bering Sea <u>G.A. Barth</u> ; D.S. Scheirer; G.L. Christeson; D.W. Scholl; R.J. Stern
8:00 AM-10:00 AM, 2008 (Moscone West), EP51D. Advances in Experimental Earth Surface Processes I	
8:30-8:45 AM <u>(Conflict)</u>	EP51D-03. Dynamics of sediment release from slope failure <u>Y. You</u> ; D.C. Mohrig; P.B. Flemings

8:00 AM-10:00 AM, 3016 (Moscone West), H51N. Theoretical, Numerical, and Experimental Advances in Pore Scale Investigation of Porous Media I	
8:35-8:50 AM (Conflict)	H51N-03. Dynamics of trapped nonwetting phase droplet under seismic stimulation in constricted pores <u>W. Deng</u> ; I.A. Beresnev; M.B. Cardenas
8:00 AM-10:00 AM, 3007 (Moscone West), C51E. Climate Change and Cryospheric Systems II	
9:45-10:00 AM (Conflict)	C51E-08. Influence of Permafrost Active Layer Dynamics on Trace Metals in Two Small Alaskan Arctic Rivers <u>A.J. Barker</u> ; T.A. Douglas; A.D. Jacobson; J.W. McClelland; A.G. Ilgen; M.S. Khosh; G.O. Lehn; T.P. Trainor
8:00 AM-10:00 AM, 2008 (Moscone West), EP51D. Advances in Experimental Earth Surface Processes I	
9:45-10:00 AM (Conflict)	EP51D-08. Laboratory experiments for defining scaling relations between rock material properties and rock resistance to erosion (Invited) <u>L.S. Sklar</u> ; J.D. Beyeler; G.C. Collins; J.W. Farrow; L. Hsu; K.L. Litwin; P.J. Polito
8:00 AM-10:00 AM, 304 (Moscone South), V51D. Integrated Multidisciplinary Constraints on Composition and Structure of the Lithosphere Mantle I	
9:45-10:00 AM (Conflict)	V51D-08. Ultra-depleted isotopic compositions in fertile asthenosphere-derived peridotites: constraints on the composition of the upper mantle. <u>B.L. Byerly</u> ; J.C. Lassiter
10:20 AM-12:20 PM, 309 (Moscone South), T52A. Geology and Geophysics of Seismicity in South and East Asia II	
10:35-10:50 AM	T52A-02. Continuing Investigation of Structures of the Accretionary Wedge off Aceh Province, Sumatra, using 2D MCS and Multibeam Bathymetric Data <u>M.C. Frederik</u> ; S.P. Gulick; J.A. Austin; K.M. Martin; U. Udrek; T. Henstock; L.C. McNeill; K. Berglar; D. Franke; C. Goldfinger; J.R. Patton; T. Fujiwara
10:20 AM-12:20 PM, 3018 (Moscone West), H52D. Trade-Offs Among Water, Land, and Energy for Sustainable Biofuel Production II	
10:50-11:05 AM	Abstract Withdrawn
11:20-11:35 AM (Conflict)	Abstract Withdrawn
10:20 AM-12:20 PM, 306 (Moscone South), T52B. Initiation and Evolution of Rift Systems II	

11:20-11:35 AM <u>(Conflict)</u>	T52B-05. Subsidence and uplift history of hyperextended margins and a self-consistent mechanism of depth-dependent thinning of the lithosphere <u>A. Svartman Dias</u> ; L.L. Lavier; N.W. Hayman; G. Manatschal; V.H. Pinto
11:35-11:50 AM	T52B-06. Experimental investigation of sediment-dominated vs. tectonic-dominated sediment transport systems in aseismically and co-seismically extensional basins (Invited) <u>K.M. Straub</u> ; C. Paola; W. Kim; B. Sheets
12:30 PM-1:30 PM, 2007 (Moscone West), TH52F. Surface Process Experiments - A Community Discussion	
12:30-1:30 PM	Surface Process Experiments - A Community Discussion <u>B.J. McElroy</u> ; L. Hsu; W. Kim; R.L. Martin
1:40 PM-6:00 PM, Hall A-C (Moscone South), A53L. North American Climate in CMIP5 Experiments II Posters	
1:40-1:40 PM	A53L-0318. Assessing Future Changes of Climate and Drought over the South-Central United States Projected by the CMIP5 Models <u>R. Fu</u> ; D.N. Fernando; L. Yin; T. Ren; Z. Yang; A.R. Bowerman
1:40 PM-6:00 PM, Hall A-C (Moscone South), C53A. Climate Change and Cryospheric Systems III Posters	
1:40-1:40 PM	C53A-0814. South Pole ice stream temporal and spatial evolution in the last glacial cycle D.D. Blankenship; <u>M.G. Cavitte</u> ; D.A. Young; S.P. Carter; G. Gutowski; R.G. Bingham; M.J. Siegert
1:40 PM-6:00 PM, Hall A-C (Moscone South), C53B. Cryospheric Contribution to Sea Level Rise: Current Estimates and Projections II Posters	
1:40-1:40 PM	C53B-0849. Impacts of Surface Mass Balance Uncertainties on Ice Sheet Initialization and Predictions of Sea Level Rise <u>G. Gutowski</u> ; C.S. Jackson; J.G. Fyke; W.H. Lipscomb; W.J. Sacks
1:40 PM-6:00 PM, Hall A-C (Moscone South), ED53B. Quintessential Field Sites: Model Field Areas and Active Learning Posters	
1:40-1:40 PM	ED53B-0926. Marine Geology and Geophysics Field Course Offered by The University of Texas Institute for Geophysics <u>D. Duncan</u> ; M.B. Davis; M.A. Allison; S.P. Gulick; J.A. Goff; S. Sausttrup
1:40 PM-6:00 PM, Hall A-C (Moscone South), EP53B. Advances in Field and Laboratory Measurement Methodologies for Quantifying Geophysical Flows II Posters	
1:40-1:40 PM	EP53B-1021. Field Observation and Numerical Modeling of Bed-Material Transport Dynamics in the Lower Mississippi River <u>M.T. Ramirez</u> ; M.A. Allison; E.A. Meselhe

1:40 PM-6:00 PM, Hall A-C (Moscone South), G53B.* Reference Frames, Global Geodetic Observing Systems, and Technique Systematic Errors III Posters	
1:40-1:40 PM	G53B-1137. Large scale mass redistribution and surface displacement from GRACE and SLR <u>M. Cheng</u> ; J.C. Ries; B.D. Tapley
1:40 PM-6:00 PM, Hall A-C (Moscone South), GC53A. Mechanisms of Past and Future Droughts in the Southwest United States and Investigation of Past and Future Changes in the Hadley Circulation II Posters	
1:40-1:40 PM	GC53A-1252. A mid-Pleistocene record of monsoonal precipitation in southwestern US, insights into the occurrence of drought <u>L. Cisneros Dozal</u> ; Y. Huang; J.M. Heikoop; P.J. Fawcett; J.E. Fessenden; R.S. Anderson; P.A. Meyers; T.E. Larson; G. Perkins; J.L. Toney; J.P. Werne; F. Goff; G.W. WoldeGabriel; C.D. Allen; M.A. Berke
1:40 PM-6:00 PM, Hall A-C (Moscone South), H53G. Theoretical, Numerical, and Experimental Advances in Pore Scale Investigation of Porous Media III Posters	
1:40-1:40 PM	H53G-1596. Theory for dynamic dispersion in Poiseuille and Hagen-Poiseuille flow <u>L. Wang</u> ; M.B. Cardenas; W. Deng
1:40-1:40 PM	H53G-1600. Formation of texturally equilibrated pores: is salt always a hydrocarbon seal? <u>S. Ghanbarzadeh</u> ; M. Prodanovic; M.A. Hesse
1:40-1:40 PM	H53G-1601. Coupled fluid and solid mechanics study for improved permeability estimation of fines' invaded porous materials <u>M. Mirabolghasemi</u> ; M. Prodanovic
1:40-1:40 PM	H53G-1602. Relating tortuosity and permeability in microfractured and unfractured porous media <u>A. Tokan-Lawal</u> ; W. Wang; M. Prodanovic
1:40 PM-6:00 PM, Hall A-C (Moscone South), H53H. Trade-Offs Among Water, Land, and Energy for Sustainable Biofuel Production III Posters	
1:40-1:40 PM	H53H-1616. Relative Impacts of Climate and Land Surface Changes on Hydrology in the US Midwest: Implications for Biofuel Production <u>X. Xu</u> ; B.R. Scanlon; K. Schilling
1:40-1:40 PM	Abstract Withdrawn
1:40-1:40 PM	Abstract Withdrawn
1:40 PM-6:00 PM, Hall A-C (Moscone South), H53J. Water Contamination and Water Quality in River Systems III Posters	
1:40-1:40 PM	H53J-1670. A GIS Tool for simulating Nitrogen transport along schematic Network <u>A.A. Tavakoly</u> ; D.R. Maidment; Z. Yang; T. Whiteaker; C.H. David; S. Johnson

1:40 PM-6:00 PM, Hall A-C (Moscone South), OS53A. The El Nino–Southern Oscillation Continuum III Posters	
1:40-1:40 PM	OS53A-1964. Decadal Modulation of ENSO and Linkages to Pacific Decadal Variability: Analysis of a 1300-year CCSM4 Control Simulation <u>Y. Okumura</u>
1:40 PM-6:00 PM, Hall A-C (Moscone South), V53C. Monogenetic Volcanism II Posters	
1:40-1:40 PM	V53C-2848. Magmatic storage conditions along the Mono Craters chain, Eastern California <u>M. Williams</u> ; <u>K. Befus</u> ; J.E. Gardner
1:40 PM-3:40 PM, 2010 (Moscone West), EP53H. River Morphodynamics and Channel Patterns: How Do River Patterns Come to be Different? II	
2:25-2:40 PM	EP53H-04. River bifurcation: Learning from non-bifurcating experimental channels. (Invited) <u>W. Kim</u>
1:40 PM-3:40 PM, 309 (Moscone South), T53F. Understanding Deformation Phases of the India-Asia Continental Collision III	
2:40-2:55 PM <u>(Conflict)</u>	T53F-05. Oceanic-style Subduction Controls Late Cenozoic Deformation of the Northern Pamir and Alai <u>E.R. Sobel</u> ; J. Chen; L.M. Schoenbohm; R.C. Thiede; D.F. Stockli; M. Sudo; M.R. Strecker
1:40 PM-3:40 PM, 3016 (Moscone West), H53M. Persistent Problems and Modern Approaches in Multiphase Flow and Transport in Porous Media: From Pore to Laboratory and Field Scale II	
2:54-3:09 PM <u>(Conflict)</u>	H53M-05. Exchange flow through multiple porous media <u>K. Chang</u> ; M.A. Hesse
1:40 PM-3:40 PM, 103 (Moscone South), S53I. Understanding Recent and Historical Seismicity in the Central and Eastern U.S. II (Video On-Demand)	
2:55-3:10 PM <u>(Conflict)</u>	S53I-06. The May 17th, 2012 M4.8 earthquake near Timpson, east Texas: Was it natural or was it induced? <u>W.A. Brown</u> ; C.A. Frohlich; W.L. Ellsworth; J.H. Luetgert; M.R. Brunt
1:40 PM-3:40 PM, 104 (Moscone South), GC53D. Climate Engineering and Carbon Sequestration Monitoring II (Video On-Demand)	
3:07-3:22 PM <u>(Conflict)</u>	GC53D-08. Time lapse seismic signal analysis for Cranfield, MS, EOR and CCS site. <u>J. Ditkof</u> ; E. Caspari; R. Pevzner; M. Urosevic; T.A. Meckel; S.D. Hovorka
1:40 PM-3:40 PM, 2010 (Moscone West), EP53H. River Morphodynamics and Channel Patterns: How Do River Patterns Come to be Different? II	
3:10-3:25 PM <u>(Conflict)</u>	EP53H-07. Quaternary megafans, large rivers and other avulsive systems: a potential "who is who" in the geological record <u>E.M. Latrubesse</u>

1:40 PM-3:40 PM, 2008 (Moscone West), EP53F. Coastal Geomorphology and Morphodynamics II	
3:25-3:40 PM	EP53F-08. Analysis of the Ganges-Brahmaputra deltaic network: The signature of delta forming processes, vegetation and anthropogenic disturbance <u>P. Passalacqua</u> ; S. Lanzoni; C. Paola; A. Rinaldo
4:00 PM-6:00 PM, 301 (Moscone South), MR54A. Electronic Structure and Elasticity of Earth Minerals II	
4:30-4:45 PM	MR54A-03. Electronic spin transitions of iron in the lower-mantle: potential implications to deep-mantle geophysics and geochemistry <u>J. Lin</u> ; S. Speziale; Z. Mao; H. Marquardt
4:00 PM-6:00 PM, 2008 (Moscone West), EP54A. Coastal Geomorphology and Morphodynamics III	
5:00-5:15 PM <u>(Conflict)</u>	EP54A-05. Distributary Channel Evolution in Two Phases: Increased Asymmetry during Floods, Multiple Channel Extension during Low Flow <u>J.B. Shaw</u> ; D.C. Mohrig
4:00 PM-6:00 PM, 2020 (Moscone West), IN54A. Advancing Partnerships, Collaborative Platforms, and Knowledge Networks in the Earth Sciences II	
5:00-5:15 PM <u>(Conflict)</u>	IN54A-05. The iPlant Collaborative: A model for a collaborative science cyberinfrastructure. <u>D. Stanzione</u>
4:00 PM-6:00 PM, 103 (Moscone South), S54D. Understanding Recent and Historical Seismicity in the Central and Eastern U.S. III (Video On-Demand)	
5:00-5:15 PM <u>(Conflict)</u>	S54D-05. Distribution of long-term Quaternary Deformation and Correlation with Pre-existing Tectonic Structures in the Central US <u>M. Magnani</u> ; K.D. McIntosh; L. Guo; Y. Hao
4:00 PM-6:00 PM, 2005 (Moscone West), EP54B. Do Characteristic Landscape Features Correspond to a Unique Process? II	
5:30-5:45 PM	EP54B-07. Effects of Imposed Variable Rates of Lateral Subsidence on a Deltaic System (Invited) <u>W. Kim</u> ; J. Kopp
4:00 PM-6:00 PM, 2020 (Moscone West), IN54A. Advancing Partnerships, Collaborative Platforms, and Knowledge Networks in the Earth Sciences II	
5:45-6:00 PM	IN54A-08. OGC Collaborative Platform undercover G. Buehler; D.K. Arctur; <u>L.E. Bermudez</u>