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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), **B11C. Phenology Responses and Feedbacks to Biogeophysics, Disturbance, and Climate Change I Posters**	
8:00-8:00 AM	**B11C-0453. Modeling leaf phenology variation by groupings of species within and across ecosystems in northern Alaska** E.S. Euskirchen; T.B. Carman; A.D. McGuire
1:40 PM-6:00 PM, Hall A-C (Moscone South), **B13C. Soil Organic Matter and Carbon Sequestration in the Anthropocene III Posters**	
1:40-1:40 PM	**B13C-0524. Testing hypotheses of soil organic matter dynamics in a mechanistic reactive transport model** W.J. Riley; F. Maggi; N. Guerry; M.S. Torn; M. Kleber
1:40-1:40 PM	**B13C-0546. Developing a high-latitude soil carbon cycle model with a focus on trait-based representation of decomposition** N. Bouskill; J. Tang; W.J. Riley; E.L. Brodie
1:40 PM-6:00 PM, Hall A-C (Moscone South), **C13A. Cryosphere General Contributions Posters**	
1:40-1:40 PM	**C13A-0597. Simulating Soil Warming on a Permafrost Ecosystem in Fairbanks, Alaska** M. Beede; A.M. Wagner; S.D. Wullschleger; J.E. Zufelt
1:40 PM-6:00 PM, Hall A-C (Moscone South), **C13B. Geochemical and Microbial Processes in the Terrestrial Cryosphere I Posters**	
1:40-1:40 PM	**C13B-0623. Characterization and Modeling Of Microbial Carbon Metabolism In Thawing Permafrost** D.E. Graham; T.J. Phelps; X. Xu; S. Carroll; S. Jagadamma; M. Shakya; P.E. Thornton; D.A. Elias
1:40 PM-6:00 PM, Hall A-C (Moscone South), **C13C. Geophysical Characterization of Permafrost Systems I Posters**	
1:40-1:40 PM	**C13C-0640. Monitoring Freeze Thaw Transitions in Arctic Soils using Complex Resistivity Method** Y. Wu; S.S. Hubbard; C. Ulrich; B. Dafflon; S.D. Wullschleger
1:40 PM-3:40 PM, 2006 (Moscone West), **B13H. Vulnerability of Permafrost Carbon to Climate Change I**	
2:40-2:55 PM	**B13H-05. A synthesis of thermokarst and thermo-erosion process rates** G. Grosse; B.M. Jones; B.A. Sannel; C.D. Arp; K.M. Walter Anthony; V.E. Romanovsky; S.D. Wullschleger

4:00 PM-6:00 PM, 2006 (Moscone West), **B14D. Vulnerability of Permafrost Carbon to Climate Change II**	
5:30-5:45 PM	**B14D-07. The Impacts of Permafrost Thaw on Land-Atmosphere Greenhouse Gas Exchange in Recent Decades over the Northern High Latitudes** D.J. Hayes; D.W. Kicklighter; A.D. McGuire; M. Chen; Q. Zhuang; J.M. Melillo; S.D. Wullschleger

Tuesday, December 04, 2012

Time	Session Info
8:00 AM-12:20 PM, Hall A-C (Moscone South), **B21D. Vulnerability of Permafrost Carbon to Climate Change III Posters**	
8:00-8:00 AM	**B21D-0395. Geochemical Characterization of Lateral Distribution of Water and Carbon in Arctic Landscapes** B.D. Newman; J.M. Heikoop; C.J. Wilson; M. Gard; G. Altmann; A.K. Liljedahl
8:00-8:00 AM	**B21D-0410. Association between permafrost degradation and soil greenhouse gas fluxes in the Alaskan Arctic** M.S. Hahn; J.B. Curtis; V.L. Sloan; M.S. Torn
8:00 AM-12:20 PM, Hall A-C (Moscone South), **GC21A. Barrow, Alaska: Decades of Iconic Data Sets as a Cornerstone of Arctic Observing II Posters**	
8:00-8:00 AM	**GC21A-0937. Five Years of Variability in Snow Depth and Active Layer Hydrologic and Thermal Regime Across an Ice Wedge Polygon in Barrow, Alaska** S.E. Scott; A.K. Liljedahl; M. Sturm
8:00-8:00 AM	**GC21A-0948. Measuring and Modeling Changes in Permafrost Temperature at the UAF Permafrost Observatory in Barrow, Alaska** V.E. Romanovsky; K. Yoshikawa; S.S. Marchenko
10:20 AM-12:20 PM, 3016 (Moscone West), **C22B. Geophysical Characterization of Permafrost Systems II**	
11:05-11:20 AM	**C22B-04. Imaging active layer and permafrost variability in the Arctic using electromagnetic induction data** B. Dafflon; S.S. Hubbard; C. Ulrich; J.E. Peterson; Y. Wu; J. Chen; S.D. Wullschleger
11:50-12:05 PM	**C22B-07. Mapping Deep Low Velocity Zones in Alaskan Arctic Coastal Permafrost using Seismic Surface Waves** S. Dou; J.B. Ajo Franklin; D.S. Dreger
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-1105. Photosynthetic Characterization of Plant Functional Types from Coastal Tundra to Improve Representation of the Arctic in Earth System Models** A. Rogers; C. Xu; N.G. McDowell; V.L. Sloan; R.J. Norby

Wednesday, December 05, 2012

Time	Session Info
8:00 AM-10:00 AM, 2004 (Moscone West), **B31G. Integrating Microbial Processes Into Ecosystem Models of Carbon and Nitrogen Cycling I**	
8:15-8:30 AM	**B31G-02. Simulating CO2 and CH4 production and consumption from incubated permafrost soils: how important are the microbial mechanisms** X. Xu; D.A. Elias; D.E. Graham; T.J. Phelps; P.E. Thornton
8:00 AM-10:00 AM, 3005 (Moscone West), **C31C. Geochemical and Mircobial Processes in the Terrestrial Cryosphere III**	
9:15-9:30 AM	**C31C-06. Horizontal And Vertical Profiling Of Microbial Communities Across Landscape Features At NGEE Site, Barrow, AK** J.K. Jansson; N. Tas; E.L. Brodie; D.E. Graham; T.J. Kneafsey; M.S. Torn; Y. Wu; S.D. Wullschleger; S.S. Hubbard
1:40 PM-6:00 PM, Hall A-C (Moscone South), **C33C. Quantifying Spatial Variability of Snow and Snow Processes II Posters**	
1:40-1:40 PM	**C33C-0668. Effects of spatially variable snow cover on thermal regime and hydrology of an Arctic ice wedge polygon landscape identified using ground penetrating radar and LIDAR datasets.** A. Gusmeroli; A.K. Liljedahl; J.E. Peterson; S.S. Hubbard; L.D. Hinzman
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-1426. Progress Towards Coupled Simulation of Surface/Subsurface Hydrologic Processes and Terrestrial Ecosystem Dynamics Using the Community Models PFLOTRAN and CLM** R.T. Mills; G. Bisht; S. Karra; F.M. Hoffman; G.E. Hammond; J. Kumar; S. Painter; P.E. Thornton; P.C. Lichtner
1:40 PM-3:40 PM, 2006 (Moscone West), **B33H.* Improving Terrestrial Biogeochemical Models Through Integrating Models With Data I**	
1:55-2:10 PM	**B33H-02. Next Generation Carbon-Nitrogen Dynamics Model** C. Xu; R.A. Fisher; J.A. Vrugt; S.D. Wullschleger; N.G. McDowell

Thursday, December 06, 2012

Time	Session Info
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	**B41C-0292. Characterizing the Measurements Necessary to Constrain Soil Biogeochemistry Structural Uncertainty in CLM4: a Measurement-Oriented Modeling Approach** J. Tang; W.J. Riley; C.D. Koven; M.S. Torn
8:00-8:00 AM	**B41C-0297. Community Land Model (CLM) Assessment on Simulating and Analyzing Water, Carbon and Nitrogen Cycles in Arctic Coastal Tundra at Barrow, Alaska** F. Yuan; P.E. Thornton; A.W. King; D.M. Ricciuto; W.M. Post
8:00 AM-12:20 PM, Hall A-C (Moscone South), **EP41C. Natural and Controlled Experiments in Landscape Evolution I Posters**	
8:00-8:00 AM	**EP41C-0817. Topographic Signature of Climate Change- insights into climatic controls on landscape evolution under permafrost and non-permafrost environments** C. Gangodagamage; J.C. Rowland; C.J. Wilson; S. Brumby; J.P. Prancevic; B.T. Crosby; P. Marsh; G. Altmann

Friday, December 07, 2012

Time	Session Info
8:00 AM-10:00 AM, 103 (Moscone South), **U51B. The Arctic System: From Critical Process Studies to Global Perspectives (Video On-Demand)**	
9:20-9:40 AM	**U51B-05. Improved Climate Prediction through a System Level Understanding of Arctic Terrestrial Ecosystems** S.D. Wullschleger; D.E. Graham; L.D. Hinzman; S.S. Hubbard; L. Liang; A.K. Liljedahl; R.J. Norby; A. Rogers; J.C. Rowland; P.E. Thornton; M.S. Torn; W.J. Riley; C.J. Wilson
1:40 PM-6:00 PM, Hall A-C (Moscone South), **B53E. Quantifying Heterogeneity of Landscapes and Ecosystems in Earth System Models II Posters**	
1:40-1:40 PM	**B53E-0707. Parameterization of an Active Thermal Erosion Site, Caribou Creek, Alaska** R. Busey; W.R. Bolton; J.E. Cherry; L.D. Hinzman
1:40-1:40 PM	**B53E-0709. Ecohydrology of Interior Alaska boreal forest systems** J. Cable; W.R. Bolton

1:40-1:40 PM	**B53E-0710. Quantifying Interdependence among Processes and Characterizing Dynamic Controls across Spatial Scales by Linking Climate, Hydrology and Ecosystem Models** L.D. Hinzman; W.R. Bolton; J. Cable; B. Nijssen; D.D. Morton; D.P. Lettenmaier; S.D. Peckham
1:40-1:40 PM	**B53E-0711. The hydrology of Arctic landscapes with differing ice wedge polygon type through field measurements and modeling** A.K. Liljedahl; C.J. Wilson; R.P. Daanen; J. Schulla; L.D. Hinzman
1:40-1:40 PM	**B53E-0712. Scaling of hydrologic flows due to polygonal ground features in Arctic ecosystem** G. Bisht; J. Kumar; A.K. Liljedahl; W.J. Riley; P.E. Thornton
1:40-1:40 PM	**B53E-0713. Active layer and permafrost thermal regimes in ice wedge polygon dominated regions of Alaska** J. Kumar; G. Bisht; S. Karra; A.K. Liljedahl; F.M. Hoffman; R.T. Mills; S. Painter; P.E. Thornton
1:40-1:40 PM	**B53E-0715. High Resolution Characterization of Heterogeneous Arctic Tundra Subsurface Properties using a Multiscale Bayesian Fusion Approach with Geophysical Datasets** H. Wainwright; S.S. Hubbard; C. Gangodagamage; J.C. Rowland; A.K. Liljedahl; A. Gusmeroli; B. Dafflon; C. Ulrich; Y. Wu; C.E. Tweedie; S.D. Wullschleger
1:40-1:40 PM	**B53E-0716. Linking vegetation composition to geomorphic units in a polygonal tundra landscape: a framework for improving estimates of plant functional type coverage in ecosystem models.** V.L. Sloan; C. Iversen; J. Childs; E.S. Euskirchen; A.D. McGuire; R.J. Norby
1:40-1:40 PM	**B53E-0717. Application of Unsupervised Clustering using Sparse Representations on Learned Dictionaries to develop Land Cover Classifications in Arctic Landscapes** J.C. Rowland; D.I. Moody; S. Brumby; C. Gangodagamage
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-0807. Scaling Process Studies and Observations in the Arctic for Improved Climate Predictability** C.J. Wilson; D.E. Graham; L.D. Hinzman; S.S. Hubbard; L. Liang; R.J. Norby; W.J. Riley; A. Rogers; J.C. Rowland; P.E. Thornton; M.S. Torn; S.D. Wullschleger