

CENTER

FOR EARTH SYSTEM RESEARCH AND SUSTAINABILITY (CEN)

CLUSTER OF EXCELLENCE CLIMATE, CLIMATIC CHANGE, AND SOCIETY (CLICCS)

Orals and poster presentations @ AGU 2019

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U Union **A** Atmospheric

Sciences

B Biogeosciences

C Cryosphere

EP Earth and Planetary Surface

Processes

GC Global Environmental Change

H Hydrology

IN Earth and Space Informatics

NH Natural Hazards

OS Ocean Sciences

PP Paleoceanography

S Seismology

V Volcanology,

Geochemistry, and

Petrology

Monday, 09th of December

Contributions:

U11C-03: Thermochemical or microbial sulfate reduction: determining the driver of native sulfur formation in the subsurface

Amanda Leane Labrado¹, Benjamin Brunner¹, Antoine Crémière², Stefano M Bernasconi³, Jörn Peckmann⁴ and Katherine A Giles⁵, (1)University of Texas at El Paso, Geological Sciences, El Paso, TX, United States, (2)California Institute of Technology, Pasadena, CA, United States, (3)ETH Zurich, Department of Earth Sciences, Zurich, Switzerland, (4)Institute of Geology, University of Hamburg, Hamburg, Germany, (5)University of Texas at El Paso, El Paso, TX, United States

08:00 - 10:00, Moscone West, eLightning Theater II

B12B-08 An assessment of the nitrogen effects on the future terrestrial carbon cycle: state-of-the-art and future perspectives

Soenke Zaehle¹, Johannes Meyerholt¹, Taraka Davies-Barnard², Andy Wiltshire³, David Warlind⁴, Benjamin Smith⁴, Victor Bovkin⁵, Hanna Lee⁶, Daniele Peano⁷, Yuanchao Fan⁸, Rosie Fisher⁹ and Chris Jones³, (1)Max Planck Institute for Biogeochemistry, Jena, Germany, (2)University of Bristol, Bristol, United Kingdom, (3)Met Office Hadley Centre, Exeter, United Kingdom, (4)Lund University, Lund, Sweden, (5)Max Planck Institute for Meteorology, Hamburg, Germany, (6)Uni Research, Bergen, Norway, (7)Euro-Mediterranean Center on Climate Change, Lecce, Italy, (8)NORCE Norwegian Research Centre AS, Bergen, Norway, (9)National Center for Atmospheric Research, Boulder, CO, United States

12:05 – 12:20, Moscone West, 3003, L3

V13E-0226 Deposition Temperature of the July 2015 Pyroclastic Density Currents at Volc ☐ de Colima (Mexico)

Lea Scharff¹, Joerg Hasenclever¹, Matthias KG Hort¹ and Nick R Varley², (1)University of Hamburg, CEN, Institut of Geophysics, Hamburg, Germany, (2)Universidad de Colima, Facultad de Ciencias, Colima, Mexico

13:40 – 18:00, Moscone South, Poster Hall

Tuesday, 10th of December

Contributions:

B21G-2420: Modelling lateral transport of riverine organic carbon as a link of terrestrial carbon and hydrology within MPI-ESM

Swati Gehlot¹, Stefan Hagemann² and Victor Brovkin¹, (1)Max Planck Institute for Meteorology, Hamburg, Germany, (2)Heimholtz-Zentrum Geesthacht, Geesthacht, Germany **08:00 – 12:20, Moscone South, Poster Hall**

S21G-0593: Applications of 6DoF sensors in seismology - from building monitoring to dynamic tilt correction

Felix Bernauer, Ludwig Maximilians University of Munich, Earth- and Environmental Sciences, Munich, Germany, Joachim M Wassermann, Section Geophysics, Munich, Germany, Heiner Igel, Ludwig-Maximilian Univ, Muenchen, Germany and Celine Hadziioannou, UniversitäHamburg, Institute for Geophysics, Hamburg, Germany

08:00 - 12:20, Moscone South, Poster Hall

IN21A-08: AtMoDat: Improving reusability of atmospheric model data by adapting metadata standards and by providing specific data quality information

Daniel Neumann¹, **Karsten Peters**¹, Anette Ganske², Johannes Mulmenstadt³, Vivien Voss⁴, David Grawe⁴, Stephan Kindermann¹, Angelina Kraft², **Andrea Lammert¹**, **Bernd Leitl⁴**, Johannes Quaas³, **Heinke Schluenzen⁴** and **Hannes Thiemann¹**, (1)DKRZ German Climate Computing Centre, Data Management, Hamburg, Germany, (2)Technische Informationsbibliothek (TIB), Hannover, Germany, (3)University of Leipzig, Leipzig Institute for Meteorology, Leipzig, Germany, (4)University of Hamburg, CEN, Meteorological Institute, Hamburg, Germany **09:10 – 09:20, Moscone West, 2018, L2**

B22D-03: Peatland-dominated boreal ecoregions at risk of drying in a warmer climate Manuel Helbig¹, James Michael Waddington², Pavel Alekseychik^{3,4}, Brian D Amiro⁵, Mika Aurela⁶, Alan Barr⁷, Thomas A Black⁸, Peter Blanken⁹, Sean Kevin Carey¹⁰, Jiquan Chen¹¹, Jinshu Chi¹², Ankur R Desai¹³, Allison L Dunn¹⁴, Eugenie Susanne Euskirchen¹⁵, Thomas Friborg¹⁶, Lawrence B Flanagan¹⁷, Inke Forbrich¹⁸, Achim Grelle¹⁹, Silvie R Harder²⁰, Michal Heliasz²¹, Elyn Humphreys²², Hiroki Ikawa²³, Hiroki Iwata²⁴, Pierre-Erik Isabelle²⁵, Rachhpal Jassal²⁶, Juliya Kurbatova²⁷, Mika Korkiakoski²⁸, Lars Kutzbach²⁹, Anders Lindroth³⁰, Takeshi Ohta³¹, Mikaell Ottosson Lofvenius³², Annalea Lohila⁶, Trofim C Maximov³³, Ivan Mammarella³⁴, Philip Marsh³⁵, Joe Melton³⁶, Paul Moore³⁷, Daniel F Nadeau²⁵, Erin M Nicholls¹⁰, Mats B Nilsson³⁸, Matthias Peichl³⁹, Richard M Petrone⁴⁰, Roman E Petrov⁴¹, William L Quinton⁴², Nigel T Roulet⁴³, David E Reed⁴⁴, Benjamin Runkle⁴⁵, Anna Rutgersson⁴⁶, Erik Sahlee⁴⁶, Oliver Sonnentag⁴⁷, Ian B Strachan²⁰, Pierre Taillardat⁴⁸, Eeva-Stiina Tuittila⁴⁹, Juha-Pekka Tuovinen⁶, Jess Turner⁵⁰, Masahito Ueyama⁵¹, Andrej Varlagin²⁷, Martin Wilmking⁵² and Steven C Wofsy⁵³, (1)McMaster University, School Of Geography & Earth Sciences, Hamilton, ON, Canada, (2)McMaster University, Hamilton, ON, Canada, (3)University of Helsinki, Department of Physics, Helsinki, Finland, (4) Natural Resources Institute Finland, Helsinki, Finland, (5) Univ Manitoba, Winnipeg, MB, Canada, (6) Finnish Meteorological Institute, Helsinki, Finland, (7) Environment Canada,

Climate Research Division, Saskatoon, SK, Canada, (8) University of British Columbia, Soil Science, Vancouver, BC, Canada, (9)University of Colorado, Boulder, Boulder, CO, United States, (10) McMaster University, School of Geography and Earth Sciences, Hamilton, ON, Canada, (11) Michigan State University, Department of Geography, Environment, and Spatial Sciences, East Lansing, MI, United States, (12)SLU Swedish University of Agricultural Sciences Umea, Umea Sweden, (13) University of Wisconsin Madison, Department of Atmospheric and Oceanic Sciences, Madison, WI, United States, (14) Worcester State University, Worcester, MA, United States, (15)University of Alaska Fairbanks, Fairbanks, AK, United States, (16)University of Copenhagen, Department of Geosciences and Natural Resource Management, Kbenhavn K, Denmark, (17) Univ Lethbridge, Lethbridge, AB, Canada, (18) Marine Biological Lab, Woods Hole, MA, United States, (19)SLU Swedish University of Agricultural Sciences Uppsala, Uppsala, Sweden, (20)McGill University, Montreal, QC, Canada, (21)Lund University, Physical Geography and Ecosystem Sciences, Lund, Sweden, (22) Carleton University, Ottawa, ON, Canada, (23)International Arctic Research Center, Fairbanks, AK, United States, (24)Shinshu University, Matsumoto, Japan, (25)Laval University, Civil and Water Engineering, Quebec City, QC, Canada, (26) University of British Columbia, Biometeorology and Soil Physics Group, Vancouver, BC, Canada, (27)A.N. Severtsov Institute of Ecology and Evolution, Russian Academy of Sciences, Moscow, Russia, (28) Greenbrae, CA, United States, (29) Universität Hamburg, Center for Earth System Research and Sustainability, Institute of Soil Science, Hamburg, Germany, (30)Lund University, Lund, Sweden, (31) Nagoya University, Graduate School of Bioagricultural Sciences, Nagoya, Japan, (32)SLU Swedish University of Agricultural Sciences Umea Umea Sweden, (33)Institute for Biological Problems of the Cryolithozone, Siberian Branch, Russian Academy of Science, Yakutsk, Russia, (34)University of Helsinki, Institute for Atmospheric and Earth System Research / Physics, Faculty of Science, Helsinki, Finland, (35)Wilfrid Laurier University, Cold Regions Research Centre, Waterloo, ON, Canada, (36) Environment and Climate Change Canada, Climate Processes Section, Victoria, BC, Canada, (37)McMaster University, Geography and Earth Sciences, Hamilton, ON, Canada, (38) Swedish Univrsity of Agricultu, Umea Sweden, (39) SLU Swedish

University of Agricultural Sciences Umea Department of Forest Ecology and Management, UmeaSweden, (40)University of Waterloo, Geography and Environmental Management, Waterloo, ON, Canada, (41)Institute for Biological Problems of Cryolithozone, Siberian Branch of Russian Academy of Sciences, Yakutsk, Russia, (42)Wilfrid Laurier University, Geography and Environmental Studies, Waterloo, ON, Canada, (43)McGill Univ, Montreal, QC, Canada, (44)Michigan State University, Center for Global Change and Earth Observations, East Lansing, MI, United States, (45)University of Arkansas, Fayetteville, AR, United States, (46)Uppsala University, Uppsala, Sweden, (47)Universite Montreal, Departement de Geographie, Montreal, QC, Canada, (48)University of Quebec at Montreal UQAM, Montreal, Canada, (49)University of Eastern Finland, School of Forest Sciences, Joensuu, Finland, (50)University of Wisconsin Madison, Madison, United States, (51)Osaka Prefecture University, Sakai, Japan, (52)University of Greifswald, Greifswald, Germany, (53)Harvard University, School of Engineering and Applied Sciences, Cambridge, MA, United States

08:00 - 12:20, Moscone West, B22D-03

B23M-2576: Inter-annual Variability of CO₂ and CH₄ Fluxes of a Polygonal Tundra Landscape in the Siberian Arctic

David Holl¹, Christian Wille², Torsten Sachs³, Julia Boike⁴, Mikhail Grigoriev⁵, Irina Fedorova⁶ and Lars Kutzbach¹, (1)Universität Hamburg, Center for Earth System Research and Sustainability, Institute of Soil Science, Hamburg, Germany, (2)Helmholtz Centre Potsdam GFZ German Research Centre for Geosciences, Potsdam, Germany, (3)GFZ German Research Centre for

Geosciences, Potsdam, Germany, (4)Alfred Wegener Institute Helmholtz-Center for Polar and Marine Research Potsdam, Permafrost Research, Potsdam, Germany, (5)Melnikov Permafrost Institute SB RAS, Yakutsk, Russia, (6)St. Petersburg State University, St. Petersburg, Russia 13:40 –18:00, Moscone South, Poster Hall

B23M-2578: Microbial Carbon Degradation Processes in Thermokarst Lake Sediments from Bykovsky Peninsula, Northern Siberia

Maria Schindler, Helmholtz Centre Potsdam GFZ German Research Centre for Geosciences, Potsdam, Germany, Susanne Liebner, GFZ German Research Centre for Geosciences, Section Geomicrobiology, Potsdam, Germany, Christian Knoblauch, University of Hamburg, Hamburg, Germany, Jens Strauss, Alfred Wegener Institute Helmholtz-Center for Polar and Marine Research, Potsdam, Germany, Boris K Biskaborn, Alfred Wegener Institute Helmholtz Centre for Polar and Marine Research, Potsdam, Germany and Jens Kallmeyer, GFZ Potsdam, Geomicrobiology, Potsdam, Germany

13:40 –18:00, Moscone South, Poster Hall

GC23B-04: Land-Use Harmonization 2: New Features and New Scenarios

Louise P Chini¹, George C Hurtt², Ritvik Sahajpal³, Steve E Frolking⁴, Benjamin Bodirsky⁵, Katherine V Calvin⁶, Jonathan C. Doelman⁷, Justin Fisk⁸, Katja Frieler⁵, Shinichiro Fujimori⁹, Kees Goldewijk¹⁰, Tomoko Hasegawa⁹, Petr Havlik¹¹, Andreas Heinimann¹², Florian Humpen⁵, Johann Jungclaus¹³, Jed O Kaplan¹⁴, HyeJin Kim¹⁵, Tamas Krisztin¹¹, David M Lawrence¹⁶, Peter Lawrence¹⁶, Paul Leadley¹⁷, Lei Ma³, Ole Mertz¹⁸, Lesley E Ott¹⁹, Henrique Miguel Pereira¹⁵, Julia Pongratz¹³, Alexander Popp⁵, Benjamin Poulter²⁰, Keywan Riahi²¹, Elena Shevliakova²², Stephen Sitch²³, Elke Stehfest²⁴, Peter E Thornton²⁵, Detlef van Vuuren⁷ and Xin Zhang²⁶, (1)University of Maryland College Park, Department of Geographical Sciences, College Park, MD, United States, (2) University of Maryland, Department of Geographical Sciences, College Park, MD, United States, (3)University of Maryland, College Park, MD, United States, (4)University of New Hampshire, Durham, NH, United States, (5)Potsdam Institute for Climate Impact Research, Potsdam, Germany, (6) Pacific Northwest National Laboratory, Richland, WA, United States, (7) Netherlands Environmental Assessment Agency, Department of Climate, Air, and Energy, The Hague, Netherlands, (8) University of Maryland College Park, Geographical Sciences, College Park, MD, United States, (9) National Institute for Environmental Studies (NIES), Center for Social and Environmental Systems Research, Tsukuba, Japan, (10)San Antonio, TX, United States, (11)IIASA, Laxenburg, Austria, (12)University of Bern, Bern, Switzerland, (13)Max Planck Institute for Meteorology, Hamburg, Germany, (14) University of Lausanne, Institute of Earth Surface Dynamics, Lausanne, Switzerland, (15) Martin Luther University of Halle-Wittenberg, Halle, Germany, (16) National Center for Atmospheric Research, Boulder, CO, United States, (17) University of Paris-Sud 11, Orsay, France, (18) University of Copenhagen, Kbenhavn K, Denmark, (19)NASA Goddard Space Flight Center, Greenbelt, MD, United States, (20)NASA GSFC, Biospheric Science, Greenbelt, MD, United States, (21)IIASA International Institute for Applied Systems Analysis, Laxenburg, Austria, (22) Princeton Environmental Institute, Princeton, NJ, United States, (23)University of Exeter, College of Life and Environmental Sciences, Exeter, United Kingdom, (24)Netherlands Environmental Assessment Agency, Bilthoven, Netherlands, (25)Oak Ridge National Laboratory, Climate Change Science Institute and Environmental

Sciences Division, Oak Ridge, TN, United States, (26)University of Maryland Center for Environmental Science, Appalachian Laboratory, Frostburg, United States 14:25 –14:40, Moscone West, 2007, L2

Wednesday, 11th of December

Contributions:

GC31O-1287: Integration of bioenergy to bioeconomy future of Nigeria; Perspectives and Insights

Stanley Uchenna Okoro¹, Udo Schickhoff¹, Uwe Andreas Schneider¹ and Dunsin Arodudu², (1)University of Hamburg, Center for Earth System Research and Sustainability (CEN), Hamburg, Germany, (2)Maynooth University, Kildare, Ireland

08:00 - 12:20, Moscone South, Poster Hall

GC31K-1313: Limiting global sea-level rise as a lower cost Climate target

Chao Li, Planck Institute for Meteorology; Hermann Held, University of Hamburg; Sascha Hokamp, Research Unit Sustainability and Global Change, University of Hamburg; Jochem Marotzke, Max Planck Institute for Meteorology

08:00 – 12:20, Moscone South, Poster Hall

OS31D-1759 Can we manage the unexpected? Constructing plausible storm tides with high impact potential and consequences for coastal protection and disaster risk management.

Ralf Weisse¹, Arne Arns², Tabea Brodhagen³, ETOR Emanuel Lucio-Eceiza⁴, Anette Ganske⁵, Lidia Gaslikova⁶, Iris Grabemann⁶, Jürgen Jensen², Elke Meyer¹, Thomas Möller⁴, Beate M.W. Ratter⁷, Elisabeth Rudolph³, Jürgen Schaper⁷, Marius Ulm², Hans von Storch¹ and Birger Tinz⁴, (1)Helmholtz-Zentrum Geesthacht Centre for Materials and Coastal Research, Institute of Coastal Research, Geesthacht, Germany, (2)University of Siegen, Research Institute for Water and Environment, Siegen, Germany, (3)Bundesanstalt für Wasserbau, Hamburg, Germany, (4)Deutscher Wetterdienst (DWD), Hamburg, Germany, (5)Technische Informationsbibliothek (TIB), Hannover, Germany, (6)Helmholtz-Zentrum Geesthacht Centre for Materials and Coastal Research, Geesthacht, Germany, (7)University of Hamburg, Hamburg, Germany

08:00 – 12:20, Moscone South, Poster Hall

EP32A-08: Arctic Deltas: Carbon and nitrogen rich deposits in a dynamic permafrost landscape Matthias Fuchs^{1,2}, Torsten Sachs², Gustaf Hugelius³, Gerald V Frost Jr⁴, Mikhail Grigoriev⁵, Benjamin M Jones⁶, Ingmar Nitze¹, Juri Palmtag⁷, Pier Paul Overduin¹, Chien-Lu Ping⁸, Elizaveta Rivkina⁹, Lutz Schirrmeister¹, Georg Schwamborn¹, Matthias B. Siewert¹⁰, Jens Strauss¹, Alexandra Veremeeva⁹, Sebastian Zubrzycki¹¹ and Guido Grosse^{12,13}, (1)Alfred Wegener Institute Helmholtz-Center for Polar and Marine Research Potsdam, Potsdam, Germany, (2)GFZ German Research Centre for Geosciences, Potsdam, Germany, (3)Stockholm University, Department of Physical Geography, Stockholm, Sweden, (4) ABR, Inc. - Environmental Research & Services, Fairbanks, United States, (5)Melnikov Permafrost Institute SB RAS, Yakutsk, Russia, (6)University of Alaska, Fairbanks, Water and Environmental Research Center, Institute of Northern Engineering, Fairbanks, AK, United States, (7)Northumbria University, Department of

Geography and Environmental Sciences, Newcastle-Upon-Tyne, United Kingdom, (8)University of Alaska Fairbanks, Palmer, AK, United States, (9)Institute of Physicochemical and Biological Problems in Soil Science, Russian Academy of Sciences, Pushchino, Russia, (10)Umea University, Department of Ecology and Environmental Science, Umea, Sweden, (11) Universitaet Hamburg, Center of Earth System Research and Sustainability (CEN), School of Integrated Climate System Sciences, Hamburg, Germany, (12)Alfred Wegener Institute Helmholtz-Center for Polar and Marine Research Potsdam, Permafrost Research, Potsdam, Germany, (13)University of Potsdam, Institute of Geosciences, Potsdam, Germany

12:05 - 12:20, Moscone West, 3009, L3

V33C-0250: Caminite: An underestimated metastable Mg reservoir in hydrothermal recharge zones?

Christopher Schmidt¹, Christian Hensen¹, Klaus J G Wallmann¹, Volker Liebetrau¹, Michael Tatzel^{2,3}, Simon L. Schurr⁴, Steffen Kutterolf¹, Laura Haffert¹, Christian Huebscher⁵, Elodie Lebas⁶, Alexander Heuser¹, Mark Schmidt¹, Harald Strauss⁴, Jochen Vogl³ and Thor H Hansteen¹, (1)GEOMAR Helmholtz Centre for Ocean Research Kiel, Kiel, Germany, (2)University of California, Institute of Marine Sciences, Santa Cruz, United States, (3)Bundesanstalt für Materialforschung und – prüfung, Berlin, Germany, (4)Universitaet Muenster, Geologisch-Palaeontologisches Institut, Muenster, Germany, (5)University of Hamburg, Institute of Geophysics, Hamburg, Germany, (6)University of Kiel, Institute of Geosciences, Kiel, Germany 13:40 – 18:00, Moscone South, Poster Hall

EP33C-2341 The effect of CO2 on weathering rates in column experiments with milled rocks, laterite and loess

Jens Hartmann and Thorben Amann, Universität Hamburg, Geosciences / Center for Earth System Research and Sustainability (CEN), Hamburg, Germany

13:40 – 18:00, Moscone South, Poster Hall

GC33A-03: Combining Crowd-sourcing and Deep Learning to Understand Meso-scale Organization of Shallow Convection

Stephan Rasp¹, **Hauke Schulz**², **Bjorn B Stevens**² and Sandrine Bony³, (1)Ludwig Maximilians University of Munich, Munich, Germany, (2)Max Planck Institute for Meteorology, Hamburg, Germany, (3)Laboratoire de Meteorologie Dynamique, Paris, France

14:10 – 14:25, Moscone West, 2008, L2

GH33A-07 Extreme Heat Hotspots under Global Warming

Laura Suarez Gutierrez1, Wolfgang A. Müller1, Chao Li2 and Jochem Marotzke1, (1)Max Planck Institute for Meteorology, Hamburg, Germany, (2)Max Planck Institute for Meteorology, The Ocean in the Earth System, Hamburg, Germany

14:52 – 15:04, Moscone West, 2020, L2

Thursday, 12th of December

Contributions:

B41L-2475: Do Open-path Eddy Covariance CO₂ Analyzers Need a Spectroscopic Correction for Fast Temperature Fluctuations in the Optical Path?

Ivan Bogoev, Campbell Scientific, Inc., Logan, UT, United States and David Holl, Universität Hamburg, Center for Earth System Research and Sustainability, Institute of Soil Science, Hamburg, Germany

08:00 - 12:20, Moscone South, Poster Hall

PP41C-1571: First documentation of atoll evolution and venting system of the Zhongsha island (Macclesfield Bank), South China Sea

Xiaoxia Huang¹, Shiguo Wu¹, Christian Betzler², Xiaohui Han³, Anne Bernhardt⁴ and Martin T Hovland⁵, (1)Institute of Deep-sea Science and Engineering, Chinese Academy of Sciences, Sanya, China, (2)Geologisch-Pal. Institut, Hamburg, Germany, (3)Marine Geological Survey Institute of Hainan Province, Haikou, China, (4)Free University of Berlin, Institute of Geological Sciences, Berlin, Germany, (5)Tech Team Solutions, Stavanger, Norway

08:00 - 12:20, Moscone South, Poster Hall

MR42A-08: Insights into rock deformation from observations of the Chicxulub impact crater: Impact bulking, role of cohesion, and contrasts with tectonic plate boundary faults

Sean P S Gulick¹, Ulrich Peter Riller², Auriol Rae³, Joanna V Morgan⁴, Michael Poelchau³, Naoma McCall¹, Gail Lynn Christeson⁵ and Gareth S Collins⁶, (1)The University of Texas at Austin, Institute for Geophysics & Department of Geological Sciences, Austin, TX, United States, (2)Geologisch-Pal. Institut, Hamburg, Germany, (3)University of Freiburg, Freiberg, Germany, (4)Imperial College London, Department of Earth Science and Engineering, London, United Kingdom, (5)UTIG, Austin, TX, United States, (6)Imperial College London, London, United

12:05 – 12:20, Moscone South, 152, Upper Mezz.

Kingdom

B44E-01: Carbon degradation and CO₂ production within onshore and nearshore zones of eroding permafrost coasts

George Tanski¹, Lisa Br¹, Dirk Wagner², Christian Knoblauch³, Hugues Lantuit⁴, Tommaso Tesi⁵, Jens Strauss⁴, Michael Fritz⁴, Torsten Sachs² and Jorien Vonk¹, (1)Vrije Universiteit Amsterdam, Amsterdam, Netherlands, (2)GFZ German Research Centre for Geosciences, Potsdam, Germany, (3)University of Hamburg, Institute of Soil Science, Hamburg, Germany, (4)Alfred Wegener Institute Helmholtz-Center for Polar and Marine Research, Potsdam, Germany, (5)Istituto di Scienze Marine, Bologna, Italy

16:00 - 16:15, Moscone West, 3001, L3

B44E-05 Undecomposed Organic Particles Dominate the Carbon Storage in Permafrost Soils of the Lena River Delta, Arctic Russia

Isabel Prater¹, Sebastian Zubrzycki², Franz Buegger³, Carsten W Mueller⁴ and Lena Zoor-Füllgraff⁴, (1)Technical University of Munich, Soil Science, Munich, Germany, (2)University of Hamburg, Hamburg, Germany, (3)Helmholtz Center Munich, Biochemical Plant Pathology, Oberschleissheim, Germany, (4)Technical University of Munich, Soil Science, Freising, Germany 17:00 – 17:15, Moscone West, 3001, L3

Friday, 13th of December

Contributions:

The world climate research for the next decade: strategy, opportunities and challenges Detlef Stammer, Universitaet Hamburg, Hamburg, Germany

10:47 – 11:12, Moscone South, 303-304, L3

S53F-0529: Coupled, physics-based modeling reveals earthquake displacements are critical in generating the 2018 Palu, Sulawesi tsunami

Elizabeth H Madden¹, Thomas Ulrich², Stefan Vater³, Joern Behrens⁴, Ylona van Dinther⁵, Iris van Zelst⁶, Eric Jameson Fielding⁻, Cunren Liang՞ and Alice-Agnes Gabriel², (1)Universidade de Brasa, Observatio Sismolo - Instituto de Geoci□ias, Brasa, Brazil, (2)Ludwig Maximilians University of Munich, Munich, Germany, (3)Freie Universität Berlin, Institut fr Mathematik, Berlin, Germany, (4)University of Hamburg, Hamburg, Germany, (5)Utrecht University, Earth Sciences, Utrecht, Netherlands, (6)ETH Swiss Federal Institute of Technology Zurich, Department of Earth Sciences, Zurich, Switzerland, (7)Jet Propulsion Lab Caltech, Pasadena, CA, United States, (8)California Institute of Technology, Pasadena, CA, United States

13:40 – 18:00, Moscone South, Poster Hall

PP53A-07: Tasman Leakage: the missing link in AMOC

Beth Anne Christensen, Rowan University, Glassboro, NJ, United States, David De Vleeschouwer, MARUM - University of Bremen, Center for Marine Environmental Sciences, Bremen, Germany, Jeroen Groeneveld, Alfred Wegener Institute, Helmholtz Center for Polar and Marine Research, Potsdam, Germany, Jorijntje Henderiks, Uppsala University, Department of Earth Sciences, Uppsala, Sweden, Gerald Auer, University of Graz, Department of Geobiology and Palaeoecology, Graz, Austria, Anna Joy Drury, MARUM - University of Bremen, Bremen, Germany, Dick Kroon, University of Edinburgh, Edinburgh, United Kingdom and Christian Betzler, Geologisch-Pal. Institut, Hamburg, Germany

15:10 - 15:25, Moscone West, 2006, L2