

Please note that the order and number of presentations has been changed as some authors could not attend under the circumstances.

Authors are kindly asked to upload display material by Sunday, 3rd May, 2020, 16:00 CEST, so that there is some time prior to the online chat for viewing the displays.

Morning Session Tuesday 05 May, 10:45–12:30 CEST (Conveners Sebastian Wetterich, Thomas Opel)

10.45 - 10.50

Sign in and introduction to morning session

10.50 – 10.55

D2656 | EGU2020-16115

Climate extremes relevant for permafrost degradation

Goran Georgievski, Stefan Hagemann, Dmitry Sein, Dmitry Drozdov, Andrew Gravis, Vladimir Romanovsky, Dmitry Nicolsky, Alexandru Onaca, Florina Ardelean, Marinela Chețan, and Andrei Dornik

10.55 – 11.01

D2683 | EGU2020-9106

Recent ground thermal dynamics and variations in northern Eurasia

Liangzhi Chen, Juha Aalto, and Miska Luoto

11.01 – 11.07

D2651 | EGU2020-8473

Integrating subsea permafrost into an Earth System Model (MPI-ESM) Stiig Wilkenskjeld, Paul Overduin, Frederieke Miesner, Matteo Puglini, and Victor Brovkin

11.07 – 11.12

D2669 | EGU2020-10477

Representing Arctic coastal erosion in the Max Planck Institute Earth System Model (MPI-ESM)

David Marcolino Nielsen, Johanna Baehr, Victor Brovkin, and Mikhail Dobrynin

11.12 – 11.18

D2695 | EGU2020-18397

Upscaling of geophysical measurements: A methodology for the estimation of the total ground ice content at two study sites in the dry Andes of Chile and Argentina

Tamara Mathys, Christin Hilbich, Cassandra E.M. Koenig, Lukas Arenson, and Christian Hauck

11.18 – 11.23

D2693 | EGU2020-15162

The potential of satellite derived surface state to empirically estimate pan-arctic ground temperature at specific depths and the essential role of in-situ data

Christine Kroisleitner, Annett Bartsch, Birgitt Heim, and Mareike Wiezorek

11.23 – 11.29

D2653 | EGU2020-10903

20 years of mountain permafrost monitoring in the Swiss Alps: key results and major challenges

Jeannette Noetzli and Cécile Pellet

11.29 – 11.34

D2681 | EGU2020-7489

Quantification of ground ice through petrophysical joint inversion of seismic and electrical data applied to alpine permafrost

Coline Mollaret, Florian M. Wagner, Christin Hilbich, and Christian Hauck

11.34 – 11.39

D2692 | EGU2020-14047

Permafrost monitoring by reprocessing and repeating historical geoelectrical measurements

Christian Hauck, Christin Hilbich, Coline Mollaret, and Cécile Pellet

11.39 – 11.44

D2694 | EGU2020-18276

THM Experiment for the Investigation of Freeze-Thaw Processes in Soils and Grouting Materials

Jan Christopher Hesse, Markus Schedel, Bastian Welsch, and Ingo Sass

11.44 – 11.49

D2654 | EGU2020-10183

Measuring and modelling thermal erosion patterns of peat plateaus in northern Norway
Sebastian Westermann, Leo Martin, Jan Nitzbon, Kjetil Aas, Johanna Scheer, Trond Eiken,
and Bernd Etzelmüller

11.49 – 11.54

D2690 | EGU2020-13874

Towards mechanical modeling of rock glaciers from modal analysis of passive seismic data

Antoine Guillemot, Laurent Baillet, Stéphane Garambois, Xavier Bodin, Éric Larose, Agnès Helmstetter, and Raphaël Mayoraz

11.54 – 11.59

D2659 | EGU2020-6965

Monitoring rapid permafrost thaw using elevation models generated from satellite radar interferometry

Philipp Bernhard, Simon Zwieback, Silvan Leinss, and Irena Hajnsek

11.59 – 12.04

D2667 | EGU2020-746

The specificity of thermal denudation feature distribution on Yamal and Gydan peninsulas, Russia

Nina Nesterova, Artem Khomutov, Arina Kalyukina, and Marina Leibman

12.04 – 12.09

D2672 | EGU2020-2999

Multi-method dating of ancient permafrost of the Batagay megaslump, East Siberia

Sebastian Wetterich, Julian B. Murton, Phillip Toms, Jamie Wood, Alexander Blinov, Thomas Opel, Margret C. Fuchs, Silke Merchel, Georg Rugel, Andreas Gärtner, and Grigoriy Savvinov

12.09 – 12.14

D2673 | EGU2020-3748

Ground-ice stable-isotope paleoclimatology at the Batagay megaslump, East Siberia

Thomas Opel, Sebastian Wetterich, Hanno Meyer, and Julian Murton

12.14 – 12.19

D2675 | EGU2020-20513

Vegetation at the northern pole of cold during the climate extremes of the late Pleistocene: fossil records from the Batagay mega thaw slump, Yakutia

Frank Kienast, Kseniia Ashastina, Svetlana Kuzmina, and Natalya Rudaya

12.19 – 12.24

D2674 | EGU2020-21041

Characterisation of East Siberian paleodiversity based on ancient DNA analyses of the Batagay megaslump exposure

Jeremy Courtin, Amedea Perfumo, Kathleen Stoof-Leichsenring, and Ulrike Herzsuh

12.24 – 12.30

Open discussion / session summary

Afternoon session Tuesday 05 May, 14:00–15:45 CEST (Conveners Sebastian Wetterich, Florence Magnin, Trevor Porter)

14.00 – 14.05

Sign in and introduction to afternoon session

14.05 – 14.10

D2686 | EGU2020-10837

Does shrubs growth in the high-Arctic lead to permafrost warming?

Florent Domine, Georg Lackner, Maria Belke-Brea, Denis Sarrazin, and Daniel Nadeau

14.10 – 14.16

D2689 | EGU2020-13452

How do microorganisms from permafrost soils respond to short-term warming?

Victoria Martin, Julia Wagner, Niek Speetjens, Rachele Lodi, Julia Horak, Carolina Urbina-Malo, Moritz Mohrlök, Cornelia Rottensteiner, Willeke a' Campo, Luca Durstewitz, George Tanski, Michael Fritz, Hugues Lantuit, Gustaf Hugelius, and Andreas Richter

14.16 – 14.21

D2655 | EGU2020-21805

Decade of permafrost thaw in a subarctic palsamire alters carbon fluxes without affecting net carbon balance

Carolina Olid, Jonatan Klaminder, Sylvain Monteux, Margareta Johansson, and Ellen Dorrepaal

14.21 – 14.27

D2677 | EGU2020-1428

Modelled (1990-2100) Variations in Active-Layer Thickness and Ice-Wedge Activity Near Salluit, Nunavik (Canada)

Samuel Gagnon and Michel Allard

14.27 – 14.32

D2670 | EGU2020-17801

Thermal behaviour of retrogressive thaw slumps over time revealed by ERT - an example from Herschel Island, Canada

Saskia Eppinger, Michael Krautblatter, Hugues Lantuit, and Michael Fritz

14.32 – 14.37

D2660 | EGU2020-14201

Multi-methodological investigation of a retrogressive thaw slump in the Richardson Mountains, Northwest Territories, Canada

Julius Kunz, Christof Kneisel, Tobias Ullmann, and Roland Baumhauer

14.37 – 14.42

D2679 | EGU2020-2927

Slope hydrology and permafrost: The effect of snowmelt N transport on downslope ecosystem

Laura Helene Rasmussen, Per Ambus, Wenxin Zhang, Per Erik Jansson, Anders Michelsen, and Bo Elberling

14.42 – 14.47

D2662 | EGU2020-10567

Downstream persistence of particulate organic carbon released from thaw slumps on the Peel Plateau, NT, Canada

Sarah Shakil, Suzanne Tank, Steve Kokelj, and Jorien Vonk

14.47 – 14.52

D2661 | EGU2020-7176

Characterization of mobilized sediments and organic matter in retrogressive thaw slumps on the Peel Plateau, NWT, Canada

Lisa Bröder, Kirsi Keskitalo, Scott Zolkos, Sarah Shakil, Suzanne Tank, Tommaso Tesi, Bart van Dongen, Negar Haghpour, Timothy Eglinton, and Jorien Vonk

14.52 – 14.57

D2671 | EGU2020-12181

Long-term warming of Holocene winter temperatures in the Canadian Arctic recorded in stable water isotope ratios of ice wedges

Trevor Porter, Kira Holland, Duane Froese, and Steven Kokelj

14.57 – 15.03

D2678 | EGU2020-2416

The influence of radiative forcing on permafrost temperatures in Arctic rock walls

Juditha Schmidt, Sebastian Westermann, Bernd Etzelmüller, and Florence Magnin

15.03 – 15.08

D2685 | EGU2020-10325

Modelling of long-term permafrost evolution in the discontinuous permafrost zone of North-West Siberia

Ekaterina Ezhova, Ilmo Kukkonen, Elli Suhonen, Olga Ponomareva, Andrey Gravis, Viktor Gennadinik, Victoria Miles, Dmitry Drozdov, Hanna Lappalainen, Vladimir Melnikov, and Markku Kulmala

15.08 – 15.13

D2698 | EGU2020-19984

New multi-phase thermo-geophysical model: Validate ERT-monitoring & assess permafrost evolution in alpine rock walls (Zugspitze, German/Austrian Alps)

Tanja Schroeder, Riccardo Scandroglio, Verena Stammberger, Maximilian Wittmann, and Michael Krautblatter

15.13 – 15.18

D2696 | EGU2020-18808 Climate-change-induced changes in steep alpine permafrost bedrock. 13 years of 3D-ERT at the Steintälli ridge, Switzerland.

Riccardo Scandroglio and Michael Krautblatter

15.18 – 15.23

D2697 | EGU2020-19575

Modelling water-related processes in rock wall permafrost

Florence Magnin, Jean-Yves Josnin, Ludovic Ravanel, and Philip Deline

15.23 – 15.28

D2684 | EGU2020-9534

Why rock glacier deformation velocities correlate with both ground temperatures and water supply at multiple temporal scales

Robert Kenner, Luisa Pruessner, Jan Beutel, Philippe Limpach, and Marcia Phillips

15.28 – 15.33

D2682 | EGU2020-8076

Long-term energy balance measurements at three different mountain permafrost sites in the Swiss Alps

Martin Hoelzle, Christian Hauck, Jeannette Noetzli, Cécile Pellet, and Martin Scherler

15.33 – 15.39

D2658 | EGU2020-12498

Slope thermokarst transforms permafrost preserved glacial landscapes and effects propagate through Arctic drainage networks.

Steve Kokelj, Justin Kokoszka, Jurjen van der Sluijs, Ashley Rudy, Jon Tunnicliffe, Sarah Shakil, Suzanne Tank, and Scott Zolkos

15.39 – 15.45

Open discussion / session summary