

MGM 22 Kaprun

Programme and time schedule

Nov.24		
17:00 - 19:00	Knight Hall	PYRN-DACH Treffen
19:00 - 22:00	Knight Hall	AK Permafrost Pre-Conference Get-Together

Nov.25		
9:00 - 18:00	Gallery Hall	Forum Geomorphology: Sandpit Novel Research Topics in Geomorphology
9:00 - 18:00	Knight Hall	AK Permafrost
13:00 - 15:00	<i>Die Schneiderei</i>	<i>Lunch break</i>
18:00 - 20:00	Gallery Hall	Icebreaker MGM + AK PF

Nov.26		
8:30 - 10:00	Knight Hall	2.1 Alpine Geomorphology + AK PF
10:30 - 12:00	Knight Hall	2.1 Alpine Geomorphology + AK PF
12:00 - 14:00	<i>Die Schneiderei</i>	<i>Lunch break</i>
14:00 - 14:40	Knight Hall	2.1 Alpine Geomorphology + AK PF
14:40 - 15:40	Knight Hall	2.2 Fluvial and Dryland Geomorphology
16:00 - 17:30	Gallery Hall	Poster session with cold drinks
17:30 - 19:00	Knight Hall/Gallery Hall	DGGM / Geomorph.at Administrative Meeting with voting
19:30 - 22:00	<i>Auhof</i>	<i>Conference Dinner</i>

Nov.27		
8:00 - 9:20	Knight Hall	2.3 Quaternary geomorphological systems, biogeomorphology and human-environment interaction
9:20 - 10:00	Knight Hall	2.4 Deciphering and modelling long-term landscape evolution
10:20 - 11:40	Knight Hall	2.5 Engineering geomorphology and geomorphological hazards and risks
12:00 - 13:00	<i>Castle Kaprun</i>	<i>Lunch break</i>
13:00 - 14:40	Knight Hall	2.6 New methods in Geomorphology
14:40 - 15:00	Knight Hall	<i>Closing Ceremony and awards</i>

15:00 *Shuttles to train station – Trains at 15:45 towards Munich*

Nov.28	
8:00 – 15:00	Excursion Kitzsteinhorn Meeting Point: Castle Kaprun (8:00) <i>Public bus transport to Zell am See, train connection 15:45 will be reached</i>

Oral Programme and time schedule

Date/Time	Room	Session	Title
Nov.24	Knight Hall		
17:00	19:00	AK Permafrost	PYRN-DACH-Meeting (Burgherrenzimmer)
19:00	22:00		AK Permafrost Pre-Conference Get-Together

Nov.25				
Gallery Hall		Knight Hall		
Forum Geomorphology: Sandpit Novel Research Topics in Geomorphology (N. Hovius, A. Lang, M. Krautblatter)		AK Permafrost		
Title	Time		Title	Author(s)
Designing and developing larger funding schemes in geomorphology	9:00 - 9:30	9:00 - 9:30	Welcome	J. Strauss, I. Hartmeyer, S. Weber
Short talks pitching ideas for novel research	9:30 - 10:30	9:30 - 9:50	Achievements and challenges of multi-year frequent sampling of Arctic rivers	B. Juhls, P. Overduin, A. Morgenstern
		9:50 - 10:10	Morphology and dynamics of thermokarst lakes in the Tavvavuoma palsa mire, northern Sweden	F. Seemann, B. Sannel
		10:10 - 10:30	Large Herbivores and Their Interaction with Arctic Soil Carbon Storage	T. Windirsch, G. Grosse, B. C. Forbes, J. Wolter, M. Ulrich, J. Strauss
Coffee Break	10:30 - 11:00	10:30 - 11:00	Coffee Break	

Title	Time		Title	Author(s)
Breakout Sessions for selected novel research topics	11:00 - 13:00	11:00 - 11:20	Permafrost carbon on the Canadian Beaufort Shelf: Distribution and origin of organic matter in marine surface sediments	K. Schwarzkopf, M. Fritz
		11:20 - 11:40	Calcium and amorphous silica in Arctic soils: Estimating Pan-Arctic availabilities and importance for CO ₂ production	P. Stimmler, J. Schaller
		11:40 - 12:00	Long term behaviour of retrogressive thaw slumps	S. Eppinger, M. Krautblatter
		12:00 - 12:20	Nitrogen isotopic inventory of the Lena River Delta	T. Sanders, C. Fiencke, B. Juhls, O. Ogneva, J. Strauss, R. E. Tuerena, K. Dähnke
		12:20 - 12:40	Long-term geoelectrical monitoring of bedrock permafrost in the Kammstollen, Zugspitze (Germany/Austria)	R. Scandroglio, M. Offer, T. Rehm, M. Krautblatter
		12:40 - 13:00	Reporting IPA & PYRN DACH	M. Fritz, M. Krautblatter, S. Eppinger
		13:00	AK Permafrost Fotosession	
<i>Lunch break (Die Schneiderei)</i>	13:00 - 15:00	13:00 - 15:00	<i>Lunch break</i>	Young Geomorphologists Meeting <i>(Burgherrenzimmer)</i>
Group reports on novel research topics	15:00 - 16:30	15:00 - 16:30	AK Permafrost: Locale excursion activities	
<i>Coffee Break</i>	16:30 - 17:00	16:30 - 17:00	<i>Coffee Break</i>	<i>Coffee Break</i>
Sandpit outcomes discussed with Young Geomorphologists	17:00 - 18:00	17:00	Poster Session AK PF with drinks	Sandpit outcomes discussed with Young Geomorphologists
		18:00	Final discussion and next meeting planning	
Joint Icebreaker MGM and AK PF	18:00 - 20:00		Joint Icebreaker MGM and AK PF	

Nov.26		Knight Hall		
8:30	8:40	2.1 Alpine Geomorphology and AK Permafrost co-hosted session (Convener: S. Kraushaar, A. Kellerer-Pirklbauer, S. Weber)	Opening Ceremony	Michael Krautblatter, Jan-Christoph Otto, Markus Keuschnig, Jens Strauß
8:40	9:20		Towards quantifying long-term fire-vegetation feedbacks in Eastern Siberia: what we learn from sediment transport reconstructions	Elisabeth Dietze (invited)
9:20	9:40		More than carbon: Frozen element inventories in ice-rich Yedoma permafrost	Jens Strauss, Arthur Monhonval, Clara Rutkowski, Matthias Fuchs, Tina Sanders, Christina Biasi, Sophie Opfergelt, Lutz Schirrmeister, Guido Grosse
9:40	10:00		Temperature and Microcracks control Frost Cracking in Alpine Rockwalls	Till Mayer, Martha-Cary Eppes, Daniel Draebing
10:00	10:30	<i>Coffee Break</i>		
10:30	10:50	2.1 Alpine Geomorphology and AK Permafrost co-hosted session	Repeating historical ERT campaigns reveals alpine permafrost degradation	Johannes Buckel, Rainer Gardeweg, Jan Mudler, Sebastian Buchelt, Christian Hauck, Christin Hilbich
10:50	11:10		The unusual warm summer 2022 and its impact on frost and permafrost conditions at a historic high-mountain pass landscape in central Austria	Andreas Kellerer-Pirklbauer, Julia Eulenstein
11:10	11:30		Sediment transport after rockslide-induced lake outburst flood and dam failure (Flims, CH)	Sibylle Knapp, Michael Schwenk, Michael Krautblatter
11:30	11:50		Reconstruction and quantification of the massive sediment transport after a cliff fall in a highly-active alpine basin	Natalie Barbosa, Juilson Jubanski, Johannes Leinauer, Ulrich Münzer, Florian Siegert, Michael Krautblatter
12:00	14:00	<i>Lunch Break (@Die Schneiderei)</i>		

Nov.26		Knight Hall		
14:00	14:20	2.1 Alpine Geomorphology and AK	The elevated low relief landforms of the Eastern Alps: Distribution and age constraints from cosmogenic nuclide dating	Kurt Stüwe, Jörg Robl, Lukas Plan, Derek Fabel, Gerit Gradwohl, Moritz Liebl, Fin Stuart
14:20	14:40	Permafrost co-hosted session	Changing thermal conditions and freeze-thaw cycles and implications for suspended sediment fluxes: The case of Ötztal, Austria	Amalie Skålevåg, Oliver Korup, Axel Bronstert
14:40	15:00	2.2 Fluvial and Dryland geomorphology	Capturing complex mega dunes – New insights on self-sustained formation and aeolian processes	Manuel Herzog, Katharina Anders, Bernhard Höfle, Olaf Bubenzer
15:00	15:20	(Convener: O. Bubenzer, S. M. May, J. Blöthe)	Aeolian sediments in western Mongolia: Distribution, geomorphology and paleoclimatic implications of dunefields in the basins and sandy silt in the mountains	Frank Lehmkuhl, Dennis Wolf, Bruno Boemke, Michael Klinge, Ochirbat Batkhishig, Jörg Grunert
15:20	15:40		Aeolian substrate relocation processes related to land use and land cover highlighted by wind tunnel tests in the Souss Basin, Morocco	Miriam Marzen, Mario Kirchhoff, Ali Ait Hssaine, Johannes B. Ries
15:40	16:00	<i>Coffee Break</i>		
16:00	17:30	<i>In Gallery Hall</i> : Poster session with cold drinks - program see below		
17:30	19:00	DGGM e.V. and GeomorphAT Meeting with voting Vorstand/ Beirat DGGM, Sprecher GeomorphAT		
19:30	22:00	Conference Dinner (@ Auhof)		

Nov.27		Knight Hall		
08:00	08:20	2.3 Quaternary geomorphological systems, biogeomorphology and human-environment interaction (Convener: J. Meister, M. Fuchs)	Influence of bioturbation on sediment redistribution along climate gradient in Chile	Paulina Grigusova, Annegret Larsen, Roland Brandl, Nina Farwig, Diana Kraus, Jörg Bendix
08:20	08:40		Investigating debris flow activity and fan delta formation in an alpine lake using amphibious methods	Carolin Kiefer, Patrick Oswald, Jasper Moernaut, Stefano Claudio Fabbri, Christoph Mayr, Michael Strasser, Michael Krautblatter
08:40	09:00		Non-linear dependence of silicate, carbonate and sulfide weathering on erosion and climate	Aaron Bufe, Jeremy K.C. Rugenstein, Niels Hovius
09:00	09:20		Geoarchaeological studies in Germany's largest Bronze Age barrow cemetery in the forest area "Schweinert" (SW Brandenburg) – First results	Alexandra Raab, Thomas Raab, Sandeep Puthenveedu Mohanadasan, Alexander Bonhage, Anna, Schneider, Robert Martin, Franz Schopper, Thomas Schenk, Albrecht Bauriegel, Judith Walter
09:20	09:40	2.4 Deciphering and modelling long-term landscape evolution (J. Robl, K. Stüwe)	The Erosion and Lifetime of Impact Craters on Earth	Alexa Pietrek, Stefan Hergarten
09:40	10:00		Use the second nuclide: former glaciations affect the validity of ¹⁰ Be-derived denudation rates in the Vosges Mountains (NE France)	Timothée Jautzy, Gilles Rixhon, Régis Braucher, Aster Team
10:00	10:20	<i>Coffee Break</i>		
10:20	10:40	2.5 Engineering geomorphology and geomorphological hazards and risks (Convener: R. Bell, J. Laimer)	Estimating the probability of huge rock avalanches in the Alps based on the concept of event-size dependent exhaustion	Stefan Hergarten
10:40	11:00		Study of rockfall activity in the Alpine and pre-alpine environment outside permafrost areas	Mateja Jemec Auflič, Ela Šegina
11:00	11:20		Advanced photogrammetric methods for automated rockfall monitoring	Xabier Blanch, Antonio Abellán, Marta Guinau, Anette Eltner

Nov.27		Knight Hall		
11:20	11:40	2.5 Engineering geomorphology and geomorphological hazards and risks	The effects of the extreme 2021 flood event in the Ahr valley (Germany) on an existing landslide in Müsch – a multi-method approach	Till Wenzel, Rainer Bell, Lothar Schrott, Michael Dietze, Karin Gernet, Jörg Klonowski
11:40	12:00		Gorge formation explained: Massive bedrock channel erosion during a hyperconcentrated flow event	Verena Stammberger, Benjamin Jacobs, Michael Krautblatter
12:00	13:00	<i>Lunch Break (@ Castle Kaprun)</i>		
13:00	13:20	2.6 New methods in Geomorphology (O. Sass, T. Kolb, S. Tofelde)	Deciphering small-scale periglacial surface dynamics in alpine environments using DInSAR time series analysis	Sebastian Buchelt, Jan Blöthe, Claudia Künzer, Andreas Schmitt, Tobias Ullmann, Marius Philipp, Christof Kneisel
13:20	13:40		Systematic quantification of digital image correlation performance for landslide monitoring	Doris Hermle, Markus Keuschnig, Michael Krautblatter, Valentin Tertius Bickel
13:40	14:00		Deriving calibration and validation data for physical based soil erosion models from time-lapse imagery	Anette Eltner, Anne Bienert, Oliver Grothum, Lea Epple, Pedro Zamboni, Jonas Lenz
14:00	14:20		Infrared thermography monitoring of rock faces – potential and pitfalls	Oliver Sass, Christian Bauer
14:20	14:40		Large scale survey of anthropogenic soil landscapes in New England, USA, using state-of-the-art machine learning techniques (Yolov4)	Alexander Bonhage, Wouter Verschoof-van der Vaart, Thomas Raab, Anna Schneider, Alexandra Raab, William Quimet, Florian Hirsch
14:40	15:00	<i>Closing ceremony and awards</i>		
15:00	15:30	Shuttle Service to Zell a. See train station for 15:45 Train to Munich		

Nov.28 Post-Conference Excursion

8:00 – 15:00

Excursion Kitzsteinhorn

Meeting Point: Kaprun Castle 8:00

End of Excursion: Ski Station Kitzsteinhornbahn, Kaprun

Transportation: Starting at the conference venue we will take the bus (Line K, departure: 08:15) to the valley station of the Kitzsteinhorn cable car (duration of bus ride: 20 min). The ensuing cable car ride will take approximately 45 minutes and will take us to the cable car top station at 3.030 m a.s.l..

Luggage: You can deposit your luggage at the valley station of the cable car and pick it up after the excursion.

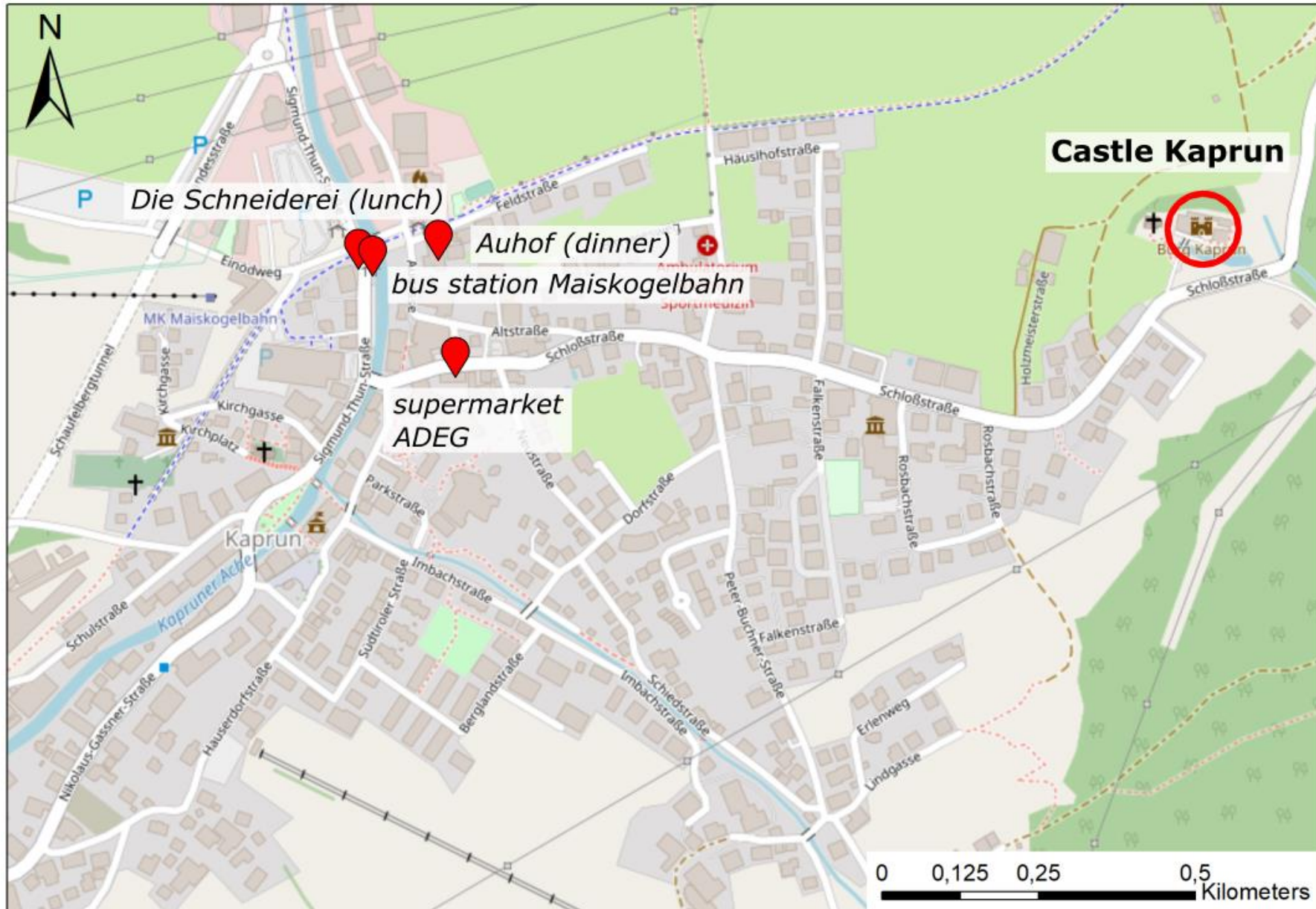
Clothing: We will spend parts of the excursion inside the (well-heated) top station and inside a tunnel (-1 °C) that connects the north- and south-side of the Kitzsteinhorn. Yet we will also spend some time outside on various platforms and depending on the conditions could take some short walks. Naturally the weather report for Monday Nov. 28th is still uncertain at this point but please prepare warm clothing! Temperatures below -10 °C would not be a surprise.

Lunch: The summit station features a nice restaurant with beautiful vistas of the high-alpine surroundings. We will reserve a section of the main dining room for our group where you can order lunch at your own expense. If you don't want to do that you can of course bring your own lunch/snacks (which you can consume outside the restaurant).

Return travel: We will return to the valley station in time to catch the public bus connection at 14:38 (Line 660) to Zell am See (arrival at the train station at 15:09). From there you will be able to catch the connection to Munich at 15:45.

Costs: Please prepare EUR 70,- in cash (if you prepare the exact amount you are doing us a great favour). Receipts will be handed out at the excursion.

Public bus transport to Zell am See, train connection 15:45 will be reached



Poster Programme (Gallery Hall)

ID	Session	Poster Titel	Authors
2.1.1	2.1 <i>Alpine Geomorphology</i>	Changes in sediment connectivity due to a major precipitation event in lower Grastal, Austria	Toni Himmelstoß, Sarah Betz, Jakob Rom, Moritz Altmann, Fabian Fleischer, Florian Haas, Michael Becht, Tobias Heckmann
2.1.2		Growing size and impacts of outbursts from ice-dammed Desolation Lake, Alaska	Georg Veh, Natalie Lützow, Bretwood Higman, Mark Zimmermann, Bodo Bookhagen, Anja Dufresne, Marten Geertsema, John J. Clague, Oliver Korup
2.1.3		Explaining and anticipating extreme vertical accumulation rates in high-alpine catchments with rockfalls and debris-laden flows	Matthias Hofner, Felix Pfluger, Michael Krautblatter
2.1.4		Lab results on rock moisture movement during freezing cycles	Andrew Mitchell, Oliver Sass
2.1.5		Detecting interannual and seasonal variability in rock glacier movement using a feature tracking approach	Lisa Rehn, Carla Tapia Baldis, Jan Blöthe
2.1.6		Glaciological Investigation of the Stubacher Sonnblickkees in the Upper Stubach Valley, Salzburg, Austria	Andreas Gschwentner, Karl Krainer, Andrea Fischer
2.1.7		Paraglacial landform dynamics at the forefield of the Obersulzbach glacier (Austria)	Sabine Dietel, Jan-Christoph Otto
2.2.1	2.2 <i>Fluvial and Dryland geomorphology</i>	Terracettes in the hyperarid Atacama Desert – a fog-driven landform of Holocene age?	Simon Matthias May, Dirk Hoffmeister, Dominik Brill, Olaf Bubenzer
2.2.2		Assessing the Connectivity of the River Network in the Aral Sea Basin based on Connectivity Indices	Florian Betz, Rafael Schmitt, Magdalena Laueremann, Tobias Heckmann

ID	Session	Poster Titel	Authors
2.3.1	2.3 <i>Quaternary geomorphological systems, biogeomorphology and human-environment interaction</i>	Holocene landscape reconstruction in the surroundings of the Temple of Pepi at ancient Bubastis, southeastern Nile Delta (Egypt)	Philipp Garbe, Amr Abd El-Raouf, Ashraf Es-Senussi, Eva Lange-Athinodorou, Julia Meister
2.3.2		Preliminary geomorphological activity analysis and their implications for the Landscape development of Bajestan Playa, Iran	Christian Büdel, Zakieh Rashidi
2.3.3		Geomorphology of the Laguna Caracota catchment, Altiplano northern Chile – linking landscape evolution, wetland formation and early human occupation	Jan-Christoph Otto, Luca Sitzia, Matias Gallardo
2.3.4		Catchment-scale distribution of biogeomorphic succession stages and potential ecosystem engineering	Stefan Haselberger, Ulrich Zangerl, Simon Scheper, Jan-Christoph Otto, Lisa-Maria Ohler, Robert R. Junker, Sabine Kraushaar
2.3.5		Sensing destruction, timely and from safe distance: real time insights to fast propagating catastrophic flood events	Michael Dietze, Rainer Bell, Thomas Hoffmann, Lothar Schrott, Niels Hovius
2.4.1	2.4 <i>Deciphering and modelling long-term landscape evolution</i>	Controls of Andean valley-floor widths	Stefanie Tofelde, Fiona J. Clubb
2.4.2		The influence of continental rifting on the development of drainage networks	Fabian Dremel, Jörg Robl, Christoph von Hagke, Moritz Liebl
2.4.3		Conceptual Approach: Modelling Plume Mode Erosion in a Multilayer Landscape Model Using TopoToolbox	Max Rau, Wolfgang Schwanghart, Michael Krautblatter

ID	Session	Poster Titel	Authors
2.5.1	<i>2.5 Engineering geomorphology and geomorphological hazards and risks</i>	Are Large Landslides Getting Larger?	Joaquin Vicente Ferrer, Oliver Korup
2.5.2		What three years of TLS- based monitoring tells us about rockfall hazards in touristically developed alpine gorges Höllentalklamm, Bavarian Alps)	Benjamin Jacobs, Paul Emil Schmid, Michael Krautblatter
2.5.3		Probability of rockfall occurrence under climate change conditions in Central Europe – results from the ClimXtreme project working group	Martina Wilde, Katrin M. Nissen, Thomas M. Kreuzer, Annika Wohlers, Uwe Ulbrich, Bodo Damm
2.5.4		Anthropogenic landslides at transportation infrastructure – examples from Lower Saxony, Central Germany	Annika Wohlers, Bodo Damm
2.5.5		Global trends and patterns of Glacier Lake Outburst Floods since 1900 monitoring	Natalie Lützow, Georg Veh, Oliver Korup
2.5.6		Complex, deep-seated landslide dynamics in the Italian Alps: understanding the temporal evolution by integrating the results of multi-technical monitoring	Edoardo Carraro, Lorenzo Brezzi, Lorenzo Nava, Filippo Catani
2.5.7		Towards a conceptual model for lahar triggers in periglacial environments of Ecuadorian volcanoes	Theresa Frimberger, Michael Krautblatter
2.5.8		Preparation of rock slope failure towards a high-sensitivity close-to-failure system	Johannes Leinauer, Michael Dietze, Sibylle Knapp, Maximilian Jokel, Natalie Barbosa, Michael Krautblatter
2.5.9		Reconstruction of the Parraguire 1987s Ice-rock avalanche: Lessons from the Chilean Central Andes	David Farías, Johannes Fürst, Thomas Bruckner, Lucía Scaff

ID	Session	Poster Titel	Authors
2.5.10	<i>2.5 Engineering geomorphology and geomorphological hazards and risks</i>	Tree rings as a source of data for mass movements studies – examples from the Western Carpathian Mts	Katarzyna Sitko, Małgorzata Wistuba, Ireneusz Malik
2.6.1	<i>2.6 New methods in Geomorphology</i>	Application of Infrared Radiofluorescence (IR-RF) dating on the Riedstadt-Erfelden drill core to assess northern Upper Rhine Graben chronology	Anna-Lena Geis, Mariana Sontag-González, Christian Hoselmann, Markus Fuchs
2.6.2		GeTiTool - Open-Source Software to analyse Geoelectric timelapse data in Geomorphology	Dominik Herler, Christian Bauer
2.6.3		High-resolution precision maps for DEM differencing	Florian Strohmaier, Jason Goetz, Sam T. McColl
2.6.4		Concept for an integrated landslide inventory system: technical foundation and automation methods	Thomas M. Kreuzer

ID	Session	Poster Titel	Authors
3.1	AK Permafrost	Postglacial permafrost depositional history of Grøndalen, West Spitsbergen	L. Schirrmeister, N. Demidov, V. Demidov, S. Wetterich, S. Verkulich
3.2		Periglacial Landforms in the German Alps – Examples from the Steinernes Meer, Berchtesgaden National Park	Tim Wiegand, Julius Kunz, Christof Kneisel
3.3		Detection, Distribution, and Internal Structure of Andean Permafrost in Taluses and Block-slopes - Agua Negra basin, Argentina	Diana A. Ortiz, Melanie A. Stammer, Tamara Koehler, Lothar Schrott, Dario Trombotto Liaudat
3.4		Towards a combined electrical and seismic approach for ice-poor bedrock in mountain permafrost	Maike Offer, Riccardo Scandroglio, Markus Keuschnig, Michael Krautblatter
3.5		Three-dimensional subsurface architecture and its influence on the spatiotemporal development of a retrogressive thaw slump in the Richardson Mountains, Northwest Territories, Canada	Julius Kunz, Tobias Ullmann, Christof Kneisel, Roland Baumhauer
3.6		Towards mechanical and hydrological controls of rock slope failure in polythermal cryospheric rock slope regimes	Felix Pfluger, Michael Krautblatter
3.7		Hydrogeology of Rock Glacier Lazaun (South Tyrol, Northern Italy)	Giulia Bertolotti, Karl Krainer, Gerfried Winkler
3.8		The footprint of permafrost carbon on the Canadian Beaufort Sea Shelf	Michael Fritz, Lisa Bröder, B. Juhls, Julie Lattaud, Antje Eulenburg, Taylor Priest, Atsushi Matsuoka, André Pellerin, Thomas Bossé-Demers, Daniel Rudbäck, Matt O'Regan, Dustin Whalen, Paul Overduin, Katharina Schwarzkopf, Jorien Vonk

ID	Session	Poster Titel	Authors
3.9	<i>AK Permafrost</i>	Carbon dynamics following permafrost thaw gradient in high latitude peatland environment	Jakob Reif, Melissa Laurent, Mackenzie Baysinger, Katharina Jentzsch, Timo Kumpula, Pasi Korpelainen, Mariana Verdonen, Jens Strauss, Claire Treat
3.10		Improvement of Marine ERT Data Inversion to Quantify Ongoing Subsea Permafrost Degradation at Tuktoyaktuk Island (Beaufort Sea)	E. Erkens, M. Angelopoulos, P. Overduin, J. Boike
3.11		Carbon degradation and potential greenhouse gas production in a changing Arctic thermokarst landscape	Verena Bischof, Juliane Wolter