10th IAG International Conference on Geomorphology

Coimbra - Portugal
12-16 September 2021

« Geomorphology and Global Change »

- Conference Program -

www.icg2022.eu
Aims & scope

The 10th International Conference of the International Association of Geomorphologists (IAG) will take place in Coimbra (Portugal) from 12 to 16 September 2022, under the theme "Geomorphology and Global Change". It is organized by IAG and Portuguese Association of Geomorphologists (APGeom) and co-organized by the Centre of Studies in Geography and Spatial Planning (CEGOT), the Department of Geography and Tourism (University of Coimbra), and the Department of Earth Sciences (University of Coimbra).

We anticipate a bustling scientific programme representing the latest innovations in theoretical, methodological and applied approaches in geomorphology. The organizers, APGeom, are proud that the conference will take place in Coimbra – a medium-sized city, rich in history and heritage, and strongly connected with its university, one of the oldest in Europe (730 years old) and a UNESCO World Heritage site since 2013.

Our programme will include opportunities to explore the diverse geomorphology of Portugal – from the mountains of Minho, through the Central Cordillera, passing carbonate and karstified massifs, quartzitic mountains and by the plateaus of "Meseta" and Alentejo, down to a coastline with beach-dune systems, cliffs and estuaries of ecological value.

Field trips such as to the Serra da Estrela, Cape Verde, Schist Mountains of Central Portugal, Central Coast and Bairrada, Minho (Portugal) and Galicia (Spain) and Lisbon Region, will be proposed around the conference dates. The usual opportunity will be offered to young geomorphologists to participate in a one-week intensive training course associated with the conference.
Organizing Committee

Local

- Lúcio CUNHA - President of APGeom (University of Coimbra)
- Luca Antonio DIMUCCIO - Vice-president of APGeom (University of Coimbra)
- Alberto GOMES - Vocal of APGeom (University of Porto)
- Adélia NUNES - Treasurer of APGeom (University of Coimbra)
- António VIEIRA - Vocal of APGeom (University of Minho)
- César ANDRADE – Department of Geology (University of Lisbon)
- António CAMPAR de ALMEIDA - Department of Geography and Tourism (University of Coimbra)
- António Rochette CORDEIRO - Department of Geography and Tourism (University of Coimbra)
- Alveirinho DIAS – University of Algarve
- Pedro Alexandre DINIS – Head of Department of Earth Sciences (University of Coimbra)
- Mário Quinta FERREIRA - Department of Earth Sciences (University of Coimbra)
- Rui FERREIRA - Department of Geography and Tourism (University of Coimbra)
- Albano FIGUEIREDO - Department of Geography and Tourism (University of Coimbra)
- João FORTE - Centre of Geographical Studies (University of Lisbon)
- Ricardo GARCIA - Institute of Geography and Spatial Planning (University of Lisbon)
- António Bento GONÇALVES - Department of Geography (University of Minho)
- Carlos LOUREIRO - Biological and Environmental Sciences (University of Stirling)
- Luciano LOURENÇO - Department of Geography and Tourism (University of Coimbra)
- Sérgio OLIVEIRA - Institute of Geography and Spatial Planning (University of Lisbon)
- Isabel PAIVA - Department of Geography and Tourism (University of Coimbra)
- Maria Luísa RODRIGUES - Institute of Geography and Spatial Planning (University of Lisbon)
- Maria José ROXO - Department of Geography and Regional Planning (New University of Lisbon)
- Norberto SANTO – Department of Geography and Tourism (University of Coimbra)
- Fantina TEDIM – Department of Geography (University of Porto)
- José TEIXEIRA - Department of Geography (University of Porto)
- Virgínia TELES - Department of Geography (University of Minho)

IAG – International Association of Geomorphologists

- Susan CONWAY – Vice-president of IAG (UMR CNRS 6112, France)
<table>
<thead>
<tr>
<th>Aaron MICALLEF</th>
<th>Angela RIZZO</th>
<th>Bruno MARTINS</th>
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<td>Achim A. BEYLICH</td>
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<td>Ana Luiza COELHO NETTO</td>
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Mauro SOLDATI
Messias MODESTO DOS PASSOS
Mihai MICU
Monique FORT
Nelson FERNANDES
Nickolas ZOUROS
Norberto SANTOS
Olav SLAYMAKER
Óscar FERREIRA
Osmar DE CARVALHO JUNIOR
Paola CORATZA
Paulo AMARAL
Paulo PEREIRA
Pedro Alexandre DINIS
Pedro PROENÇA e CUNHA
Pedro VAL
Pierluigi BRANDOLINI
Pierluigi ROSINA
Piotr MIGOŃ
Ricardo GARCIA
Roberto Arnaldo GOMES
Roberto VERDUM
Romualdo CORREIA
Ronald PÖPPL
Rosemary VIEIRA
Rui FERREIRA
Rui TABORDA
Rui Tiago MARQUES
Samuel McCOLL
Sebastian KRISTEL
Selma CASTRO
Sérgio OLIVEIRA
Sílvia MONTEIRO
Silvio RODRIGUES
Sónia Vitória SILVA
Stefano FURLANI
Stella MOREIRAS
Stephen TOOTH
Sumiko KUBO
Sunil KUMAR DE
Susan CONWAY
Vanda SALES
Vera ALDEIAS
Vera ALFAMA
Virgínia TELES
Vittoria SCORPIO
Xavier UBEDA
Zbigniew ZWOLIŃSKI
ICG2022 – 10th IAG International Conference on Geomorphology
Program by Thematic Session, Day & Time
<table>
<thead>
<tr>
<th>Time</th>
<th>Monday 12 September</th>
<th>Tuesday 13 September</th>
<th>Wednesday 14 September</th>
<th>Thursday 15 September</th>
<th>Friday 16 September</th>
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Plenary and IAG Sessions

Room Grande Auditório | Mon, 12 Sep 2022

ICG2022-SE1 | Opening ceremony and conference
Convener: Lúcio Cunha | Co-convener: Mauro Soldati

09:00-09:30 Opening ceremony

9:30-10:30 Inaugural conference by Monique FORT, University of Paris – Diderot, Geomorphology: a key discipline for documenting climate change at different spatio-temporal scales
Convener: Ana Luíza Coelho Netto

ICG2022-SE2 | First IAG general assembly
Convener: Mauro Soldati | Co-convener: Mihai Micu
11:00-13:00 First IAG general assembly

Room Sala Conventual – C1D | Mon, 12 Sep 2022

ICG2022-SE10 | 1st IAG Council Meeting
Convener: Mauro Soldati | Co-convener: Mihai Micu
17:00-19:00 1st IAG Council Meeting

Room Sala Conventual - C1D | Thu, 15 Sep 2022

ICG2022-SE11 | 2nd IAG Council Meeting
Convener: Mauro Soldati | Co-convener: Mihai Micu
17:00-19:00 2nd IAG Council Meeting

Room Grande Auditório | Fri, 16 Sep 2022

ICG2022-SE3 | Second IAG general assembly
Convener: Mauro Soldati | Co-convener: Mihai Micu
11:00–13:00 Second IAG general assembly

ICG2022-SE4 | Closing conference and ceremony
17:00 -18:00: Closing conference by José Luís ZÊZERE, University of Lisboa,
Geohazards in Portugal: A state of the art
Convener: Adélia Nunes

18:00–18:30| Closing ceremony
Convener: Lúcio Cunha | Co-convener: Mauro Soldati
Parallel Sessions

ICG2022-1  General and Historic Geomorphology
Conveners: Augusto Pérez-Alberti, André Ozer, Piotr Migon

Orals
Mon, 12 Sep, 14:30–16:30|Room Sala Sofia-C2B

Poster
Attendance Mon, 12 Sep, 16:30–16:45
Display Mon, 12 Sep, 09:00–Tue, 13 Sep, 19:00|Poster area

Orals
Mon, 12 Sep, 14:30–16:30|Room Sala Sofia-C2B
Chairpersons: Augusto Pérez-Alberti, Piotr Migon

14:30–14:35  Introduction

14:35–14:50|ICG2022-257
Geostructural control in the rocky coast evolution: combination between UAVs and field survey techniques
Alejandro Gomez-Pazo, Augusto Perez-Alberti, Liliana Freitas, and Helder I. Chaminé

14:50–15:05|ICG2022-346
Did The Physical and Metaphorical Border of the Sea Surface force Geomorphology as a Land-Driven Discipline?
Stefano Furlani and Daniele Musumeci

15:05–15:20|ICG2022-348
A 1921 Western Australian tropical cyclone underscores the utility of historical records for hazard analysis in areas of marginal cyclone influence.
Adam D. Switzer, Joseph Christensen, Joanna Aldridge, David Taylor, Holly Watson, Jim Churchill, Matthew W. Fraser, and Jenny Shaw

15:20–15:35|ICG2022-454
Sandstone and conglomerate geomorphology in the Serra do Segredo area of southernmost Brazil: contribution for a global distribution of features and processes
André Borba, Felipe Guadagnin, and Ana Paula Corrêa

15:35–15:50|ICG2022-576
GEOMORPHOLOGY IN THE CONTEXT OF NATURAL SCIENCES IN 18th-19th CENTURY GERMANY
Danilo Cardoso Ferreira and Antônio Carlos Vitte
15:50–16:05 | ICG2022-724
Glacial evolution of La Seara Valley (Courel Mountains, NW Spain) based on 36Cl Cosmic-Ray Exposure dating
Benjamín González Díaz, Augusto Pérez-Alberti, Jesús Ruiz-Fernández, Vincent Rinterknecht, Laura Rodríguez-Rodríguez, Cristina García-Hernández, and Aster Team

16:05–16:20 | ICG2022-726
Glacial evolution in the Asturian area of the Puerto de Ventana (Cantabrian Mountains, NW Spain) based on 10Be Cosmic-Ray Exposure dating
Benjamín González Díaz, Jesús Ruiz-Fernández, Vincent Rinterknecht, José Antonio González Díaz, Cristina García-Hernández, and Aster Team

16:20–16:30 | Discussion

Poster
Display Mon, 12 Sep, 09:00–Tue, 13 Sep, 19:00 | Poster area
Attendance Mon, 12 Sep, 16:30–16:45
Chairpersons: Augusto Pérez-Alberti, Piotr Migon

P1 | ICG2022-405
Lacustrine terraces in Uidzegiin Lake and Bolgoin Govi in the eastern Mongolia
Yukiya Tanaka, Su-Min Kang, and Altansukh Ochir

P2 | ICG2022-694
The granite landscape of the Penedos de Pasarela and Traba (Costa da Morte, Galicia, Spain)
Augusto Perez-Alberti
ICG2022-2  **Methods and Techniques in Geomorphology**  
Conveners: Liran Goren, Martin Stokes, Pedro Cunha, Aldina Piedade

**Orals**  
**Tue, 13 Sep, 17:00–19:00|Room Sala Almedina-C2D**

**Poster**  
**Attendance** Tue, 13 Sep, 16:30–16:45  
**Display** Mon, 12 Sep, 09:00–Tue, 13 Sep, 19:00 | Poster area

**Orals**  
**Tue, 13 Sep, 17:00–19:00|Room Sala Almedina-C2D**  
**Chairpersons**: Liran Goren, Martin Stokes, Pedro Cunha

17:00–17:15 | ICG2022-440  
**Reconstruction of morphometric changes over a decade in a high active alpine area using UltraCam aerial imagery.**  
*Natalie Barbosa, Julison Jubanski, Ulrich Münzer, and Florian Siegert*

17:15–17:30 | ICG2022-522  
**UAV applications in humid tropical fluvial geomorphology**  
*Sebastián Granados-Bolaños, Nicola Surian, Christian Birkel, Adolfo Quesada-Román, and Guillermo E. Alvarado*

17:30–17:45 | ICG2022-407  
**Laser Scanning methods and techniques for high-detail 3D modelling of caves**  
*Aliki Konsolaki, Emmanuel Vassilakis, Maria Stavropoulou, Evangelia Kotsi, and George Kontostavlos*

17:45–18:00 | ICG2022-561  
**Shape of quartz grains as an indicator of duration of transport in sedimentary environments and inheritance of shape – efficacy of automatic image analysis**  
*Dorota Chmielowska* and Barbara Woronko

18:00–18:15 | ICG2022-550  
**The need for a second nuclide: former glaciations impact the validity of 10Be-derived denudation rates in the Vosges Mountains (NE France)**  
*Timothée Jautzy, Gilles Rixhon, Régis Braucher, Laurent Schmitt, Romain Delunel, Pierre Valla, and Aster Team*

18:15–18:30 | ICG2022-247  
**Identifying temporal and spatial denudation variations using in-situ terrestrial cosmogenic nuclides along vertical profiles on enrooted bedrock.** *(withdrawn)*  
*Gerald Raab*
Tracking sediment provenance using quartz luminescence sensitivity in the northwestern Amazon basin (Colombia): insights for paleodrainage reconstruction
Carolina Cruz, Fabiano Pupim, André Sawakuchi, Mauricio Parra, Ian del Rio Garcia, Caio Breda, Giovanny Rodriguez, and Sebastián Marulanda

How to constrain the uplift history and landscape evolution processes of the youthful stage mountain by the landscape evolution model?
Haopeng Geng, Shun Cai, and Baotian Pan

Poster

Display Mon, 12 Sep, 09:00–Tue, 13 Sep, 19:00 | Poster area
Attendance Tue, 13 Sep, 16:30–16:45
Chairpersons: Pedro Cunha, Liran Goren, Martin Stokes

P3 | ICG2022-170
Digital geomorphological mapping with GOGIRA (Ground Operative-system for GIS Input Raw-data Acquisition) – An innovative system to numerical cartography.
Michele Camillo Gabriele Licata, Mauro Bonasera, Víctor Buleo Tebar, Giandomenico Fubelli, and Battista Taboni

P4 | ICG2022-228
The timing of formation of the Douro and Tejo rivers and implications for the evolution of the landscapes of central mainland Portugal
Steven Binnie, Carlos Neto de Carvalho, Pedro Cunha, Diamantino Pereira, Paulo Pereira, and Tibor Dunai

P5 | ICG2022-353
Fractal analysis and their applications in Geomorphology
Luca Lämmle, Archimedes Perez Filho, Alessio Valente, and Carlo Donadio

P6 | ICG2022-446
Spatial aspects of tree ring-based reconstruction of past landslides behaviour: where to sample?
Karel Šilhán

P7 | ICG2022-492
Gully erosion monitoring in Rio Claro Municipality, Rio de Janeiro State, using - unmaned aerial vehicle (UAV)
Fabrizio Garritano and Antonio Guerra

P8 | ICG2022-553
Topographic surface roughness: use, misuse and abuse in geomorphometry
Stefano Crema, Sebastiano Trevisani, Giorgia Macchi, Alessandro Sarretta, Lorenzo Marchi, and Marco Cavalli
P9|ICG2022-569
Exploring the multi-faceted potential of luminescence profiling via the portable reader in various fluvial depositional systems (NE France)
Gilles Rixhon, Céline Bégorre, Cassandra Euzen, Coraline Fuchs, Timothée Jautzy, Jessica Laible, and Laurent Schmitt

P10|ICG2022-9
Comparison of gully initiation thresholds estimation techniques: a case study from India (withdrawn)
Anindya Majhi, Jan Nyssen, and Ann Verdoodt

P11|ICG2022-406
Advances in Numerical dating for Reconstructing Coastal Environments from the German North Sea Coast and the Mediterranean Coast of Sardinia
Manfred Frechen
ICG2022–4  Geomorphological Mapping, GIS, Remote Sensing and Modelling
Conveners: Cenira Cunha, Leonardo Santos, Jean-Philippe Malet, Rui Figueiredo

Orals
Thu, 15 Sep, 09:00–16:30|Room Sala Sofia-C2B

Poster
Attendance Thu, 15 Sep, 10:30–10:45
Display Thu, 15 Sep, 09:00–Fri, 16 Sep, 19:00|Poster area

Orals
Thu, 15 Sep, 09:00–16:30|Room Sala Sofia-C2B
Chairpersons: Leonardo Santos, Rui Ferreira

09:00–09:15|ICG2022-91
Accuracy of direct georeferencing strategies to monitor geomorphological features
Álvaro Gómez-Gutiérrez, Manuel Sánchez-Fernández, José Juan de Sanjosé-Blasco, and Francisco Lavado-Contador

09:15–09:30|ICG2022-63
Using 2D Sediment Modelling to Simulate Geomorphic Change for River Restoration Initiatives
Zayd Abid-Waheed, Neil Entwistle, and George Heritage

09:30–09:45|ICG2022-227
Towards a comprehensive overview of glaciation at the Alps-Dinarides junction: compilation of a GIS database and creation of a web map viewer
Petra Gostinčar, Manja Žебre, Petra Jamšek Rupnik, Eva Mencin Gale, Jernej Jež, Uroš Stepišnik, Jure Atanackov, and Miloš Bavec

09:45–10:00|ICG2022-382
Pixel-based coastal change detection
Benedict Collings, Murray Ford, and Mark Dickson

10:00–10:15|ICG2022-384
Introducing a new and simplified geostatistical-based roughness algorithm
Sebastiano Trevisani

10:15–10:30|ICG2022-389
Applications of GIS, Internet technology, close-range remote sensing, and virtual reality to develop geomorphological education
Takashi Oguchi, Hiroyuki Yamauchi, Jiali Song, Takuro Ogura, Yuichi Hayakawa, Ken'ichi Tsuruoka, and Kotaro Iizuka

Coffee break and poster session
GIS, remote sensing, modelling and others

Chairpersons: Leonardo Santos, Rui Ferreira

11:00–11:15 | ICG2022-403
Structure from Motion technique and open-source software in obtaining high-resolution DTM
Joanna Ewa Szafraniec

11:15–11:30 | ICG2022-439
Integrating a drone’s DEM and orthomosaic enhances performance of Object-Based Image Analysis for habitat mapping of shallow coral reefs
Brian Owain Nieuwenhuis, Fabio Marchese, and Francesca Benzoni

11:30–11:45 | ICG2022-516
Reef morphotype characterization as an effective tool for benthic habitat description: a case study from the Red Sea.
Marta Andrea Ezeta Watts, Fabio Marchese, and Francesca Benzoni

11:45–12:00 | ICG2022-631
Downprint and upprint of landforms from DEM: the case of the volcanic Acores islands.
Christian Depraetere and Serge Riazanoff

Geomorphical process
12:00–12:15 | ICG2022-102
Giving gully detection a HAND
George Olivier, Marco Van De Wiel, and Willem De Clercq

12:15–12:30 | ICG2022-399
GIS-Remote Sensing Integrated Based Assessment and Mapping of Landslide Vulnerability Areas in South East, Nigeria
Romanus Udegbunam Ayadiuno, Dominic Chukwuka Ndulue, and Arinze Tagbo Mozie

Lunch break

Geomorphical process
Chairpersons: Rui Ferreira, Leonardo Santos

14:30–14:45 | ICG2022-408
Landslide and erosion inventory mapping based on LiDAR data: A case study from Istria (Croatia)
Sanja Bernat Gazibara, Marko Sinčić, Martin Krkač, Petra Jagodnik, Željko Arbanas, and Snježana Mihalić Arbanas
Identification of wall collapses in abandoned agricultural terraces using Object Based Image Analysis and High-Resolution Topography
Gonzalo Fernández-Olloqui, Jorge Lorenzo-Lacruz, Noemí Lana-Renault, and Fernando Pérez-Cabello

Semiautomatic inventory of the landslides triggered in the 2014 event in Ribeira Valley using Remote Sensing Data
José Eduardo Bonini, Bianca Carvalho Vieira, and Tiago Damas Martins

Geomorphological map

Sentinel 2a in mountain landscape mapping – region of mountainous Croatia
Valerija Butorac, Andrija Krtalić, and Nenad Buzjak

Relief mapping to best management practices placement purpose: an evaluation of different Digital Elevation Models
Fábio Luiz Macao Campos and André Luiz Nascentes Coelho

Geomorphological map of Greece
Efthimios Karymbalis, Konstantinos Tsanakas, Diamantina Griva, Dimitrios-Vasileios Batzakis, and Kanella Valkanou

Ephemeral rivers, geomorphological evolution and mapping. A case study in NE Iberian Peninsula
Askoa Ibisate, J. Horacio García, Alfredo Ollero, Josu Ortiz, Alvaro Gómez-Gutierrez, and Ana Sáenz de Olazagoitia

Tróia sandspit (Sado estuary, Portugal) salt marshes’ evolution until the end of the 21st century
Miguel Inácio, Ana Cunha, Maria da Conceição Freitas, Vera Lopes, Manel Leira, and César Andrade
Poster

**Attendance** Thu, 15 Sep, 10:30–10:45 | Poster area
**Display time:** Thu, 15 Sep 09:00–Fri, 16 Sep 19:00
**Chairpersons:** Leonardo Santos, Rui Ferreira

P1|ICG2022-188
**Geomorphological mapping as an instrument for Geoheritage and Geoconservation - a study of geosites in granite terrains of Northeastern Brazil**
Eliomara Leite Meira Gomes, Rubson Pinheiro Maia, Anna Sabrina Vidal de Souza, and Ana Beatriz da Silva Barbosa

P2|ICG2022-198
**Quantifying boulder covers on caprock-crowned hillslopes – a means to decipher the patterns of escarpment retreat?**
Filip Duszyński, Kacper Jancewicz, Wioleta Porębska, Piotr Migoń, Jarosław Waroszewski, and Markus Egli

P3|ICG2022-206
**Subsidence mapping in Mallorca (Spain) via Sentinel-1 imagery and links with sedimentary basin characteristics**
Jorge Lorenzo-Lacruz, Celso Garcia, Enrique Morán-Tejeda, Antoni Capó, Christian Mestre-Runge, and Aaron Ortega-McLear

P4|ICG2022-209
**Generation of high-resolution digital elevation models and orthomosaics from historical aerial photographs and LiDAR: quality assessment in the coastal beach-dune system of Es Trenc (Mallorca, Spain)**
Christian Mestre-Runge, Jorge Lorenzo-Lacruz, Aaron Ortega-McLear, and Celso Garcia

P5|ICG2022-239
**Monitoring morphological changes in Himalayan proglacial rivers though a semi-automated classification approach**
Zarka Mukhtar, Francesco Comiti, and Simone Bizzi

P6|ICG2022-326
**Geomorphological mapping of pipe collapses as a tool to identify the relationships of soil piping and geological structure at regional scale**
Joanna Hałys and Anita Bernatek-Jakiel

P7|ICG2022-356
**Multi-satellite InSAR combination to support multi-scale analyses of hillslope processes**
Marta Zocchi, Roberta Marini, Claudia Masciulli, Benedetta Antonielli, Francesca Reame, Gianmarco Pantozzi, Francesco Troiani, Paolo Mazzanti, and Gabriele Scarascia Mugnozza
Use of historical aerial photographs to study the evolution of saltmarshes in the Tróia sandspit, Sado estuary, Portugal
Ana Cunha, Miguel Inácio, Maria da Conceição Freitas, and Manel Leira

Automatic geological structure recognition at the Dead Sea lakebed
Osama AlRabayah, Djamil Al-Halbouni, Robert A. Watson, Danu Caus, Harsh Grover, David Nakath, Lars Rüpke, and Tobias Weigel

Remotely estimation of suspended sediment concentration in the Upper Paraguay River Basin, Brazil.
Stefania Cristino de Oliveira, Renan Cassimiro Brito, and Fabiano do Nascimento Pupim

Water erosion modeling using the SIMWE (Simulated of Water Erosion) (withdrawn)
Evandro Daniel, Bianca Carvalho Vieira, and Tiago Damas Martins

A multi-method remote sensing study of the morphology and controls of Al-Hajar Mountain alluvial fans, south-east Arabia.
Sam Woor, David Thomas, and Ash Parton

Identification of karst depressions through Digital Elevation Models and high resolution satellite images
Ana Amaral, Luis Cherem, Renata Momoli, and Pâmela Assis

On point cloud analysis for geomorphologic and morphostructural mapping
Marco Cunha, Fernando Lopes, and Pedro Dinis

Earth observation from AHS (Airborne Hyperspectral Scanner) data: spectral response of landforms
Eduardo García-Meléndez, Montserrat Ferrer-Julià, Gonzalo Frías, Elena Colmenero-Hidalgo, Antonio Espín de Gea, Mónica Reyes, Francisca Carreño, Juncal A. Cruz, Arturo Báscones, and Inés Pereira

Imaging spectroscopy in low relief landforms with airborne AHS images: an example in the Tagus Basin, Central Spain
Eduardo García-Meléndez, Montserrat Ferrer-Julià, Elena Colmenero-Hidalgo, Antonio Espín de Gea, Mónica Reyes, Francisca Carreño, Juncal A. Cruz, Arturo Báscones, Sara Alcalde-Aparicio, and Inés Pereira
Assessment of current and future soil erosion risk in Romania
Cristian Valeriu Patriche, Rosca Bogdan, Radu Gabriel Pirnau, and Ionut Vasiliniuc

Using GIS in geomorphometric research: examples from north and central regions of Portugal
Rui Ferreira and Luca Dimuccio

Using active sensors in hydrogeomorphological modeling through landscape analysis in Brazil
Roger Gonçalves, Franciele Guerra, Isabel Paiva, and Hung K. Chan
**ICG2022-5**  **Forms, Processes and Landscape Change**  
Conveners: Achim A. Beylich, Luca Mao, Osmar Carvalho, Roberto Verdum, Adélia Nunes

**Orals**  
Thu, 15 Sep, 09:00–16:30, 17:00–19:00|Room Sala Almedina-C2D

**Poster**  
Attendance Thu, 15 Sep, 16:30–16:45  
Display Thu, 15 Sep, 09:00–Fri, 16 Sep, 19:00|Poster area

**Orals**  
Thu, 15 Sep, 09:00–16:30, 17:00–19:00|Room Sala Almedina-C2D  
**Chairpersons:** Achim A. Beylich, Adélia Nunes, Katja Laute

09:00–09:15|ICG2022-551  
**Humans as geomorphic agents: including humans in critical zone science to enhance Anthropocene landscape sustainability**  
Larissa A. Naylor and the UK China CZO Team

09:15–09:30|ICG2022-122  
**The role of man on Landcover dynamics of the Jakiri Area of the North West Region of Cameroon**  
Clement Nkwemoh and Destain Wirsiy

09:30–09:45|ICG2022-129  
**Landscape Change due to Thousand Years of Iron Ore Production in the Erzberg Area (Styria, Austria)**  
Christine Embleton-Hamann and Stefan Premm

09:45–10:00|ICG2022-314  
**Salt dome morphology: a quantitative analysis of diapiric process-based classification schemes**  
Martin Stokes and Shahram Bahrami

10:00–10:15|ICG2022-76  
**Understanding the Geomorphology of the Gobholo Granite Cave System in Eswatini**  
Mthobisi Masilela, Heinz Beckedahl, and Wisdom Dlamini

10:15–10:30|ICG2022-361  
**Temporary tracks, persistent impacts? An evaluation of short-term usage peatland tracks.**  
Jessica Williams-Mounsey, Richard Grayson, Alistair Crowle, and Joseph Holden

Coffee break and poster session
DENUCCHANGE section

**Chairpersons:** Achim A. Beylich, Katja Laute, Olimpiu Pop

11:00–11:15 | ICG2022-644

*An assessment of geomorphic change and its effects on denudation and landscape evolution*

Juan Remondo, Antonio Cendrero, Luis M. Forte, Achim A. Beylich, and Piotr Cienciala

11:15–11:30 | ICG2022-281

*Anthropocene erosion dynamics and sediment connectivity in a central Italy landscape with badlands*

Francesca Vergari, Francesco Troiani, Marco Cavalli, Hazel Faulkner, and Maurizio Del Monte

11:30–11:45 | ICG2022-226

*Regional debris-flow chronology reconstructed through dendrogeomorphic methods in Calimani Mountains (Eastern Carpathians, Romania)*

Olimpiu Pop

11:45–12:00 | ICG2022-81

*Field-based analysis of sediment sources, spatiotemporal variability and rates of fluvial bedload transport in the cold climate and mountainous upper Driva drainage basin in central Norway*

Katja Laute and Achim A. Beylich

12:00–12:15 | ICG2022-413

*Geomorphic Change Caused by Flood at Scott River Alluvial Fan*

Waldemar Kociuba

12:15–12:30 | ICG2022-24

*Basin-scale sediment transport and sediment concentration-discharge relationship modeling in a permafrost-dominated basin*

Ting Zhang, Dongfeng Li, and Xixi Lu

Lunch break

**Chairpersons:** Adélia Nunes, Katja Laute, Achim A. Beylich

14:30–14:45 | ICG2022-43

*Geomorphic covariance structures of selected channel morphological variables across the alluvial-bedrock continuum in the Upper Ogun River Basin, Southwestern Nigeria*

Adeyemi Olusola, Samuel Ogunjo, Olutoyin Fashae, Olumide Onafeso, and Samuel Adelabu

14:45–15:00 | ICG2022-88

*Facies analysis, depositional activity and subsurface architecture of sieve lobe built alluvial fan (Planica Valley, NW Slovenia)*

Andrej Novak, Marko Vrabc, Tomislav Popit, Goran Vižintin, and Andrej Šmuc
An investigation into the threshold of sediment motion, in two non-uniform English gravel-bed rivers  
**Amelia Remers**, George Heritage, and Neil Entwistle

Measuring and attributing geomorphic and sedimentary responses to modern climate change: challenges and opportunities  
**Amy East**, Joel Sankey, Dongfeng Li, Ting Zhang, and Jonathan Warrick

Modeling bedrock channel erodibility as a function of measurable rock properties and climate  
**Joel Johnson**, Grace Guryan, Sam Anderson, Nicole Gasparini, Lisa Tranel, and Arjun Heimsath

Predicting rill erosion due to extreme rainfall events on a small hillslope in Spain using the Landscape Evolution Model (LEM)  
**Antonio Minervino Amadio**, Pietro P.C. Aucelli, Dario Gioia, Saskia Keesstra, Carmen M. Rosskopf, and Artemi Cerda

Systemic analysis of sediment connectivity in the Wadi Leben watershed, Tunisia (Mediterranean): Between morpho-structural potentialities, originality of the hydrographic network and societal reorganizations  
**Vincent Viel**, Riadh Bouaziz, Gilles Arnaud-Fassetta, and Salem Dahech

Outburst floods control the fluvial landscape evolution in Himalayan Tsangpo Gorge  
**Xianyan Wang**, Xiaolu Dong, Long Yang, Zhijun Zhao, Ronal Ronal Van Balen, Xiaodong Miao, Tao Liu, Jef Jef Vandenberghe, and Huayu Lu

Coffee break and poster session

**Chairpersons:** Olimpiu Pop, Adélia Nunes, Achim A. Beylich

Mapping and quantification of proglacial landscape changes based on time-series of UAV surveys: A case study of a temperate glacial landsystem of Fjallsjökull/Hrútárjökull, SE Iceland  
**Marek Ewertowski**, David Evans, Aleksandra Tomczyk, and Szymon Śledź

Recent sedimentation-erosion processes along the Nalón estuary (Asturias, N Spain)  
**Jon Gardoqui**, Alejandro Cearreta, Ane García-Artola, María Jesús Irabien, José Gómez-Arozamena, and Víctor Villasante-Marcos
17:30–17:45 | ICG2022-596
**Effects of drainage captures in the retreat of Serra do Mar: an analyze using the combination of numerical models and cosmogenic isotopes**
Carolina Coelho Giorio do Vale, Nelson Ferreira Fernandes, Renato Villela Mafra Alvesda Silva, and Lúcia Maria da Silva

17:45–18:00 | ICG2022-266
**Landscape evolution related to drainage reversals toward escarpments: Insights from the southeastern Negev Desert, Israel**
Liran Goren, Elhanan Harel, Eitan Shelef, Onn Crouvi, and Hanan Ginat

18:00–18:15 | ICG2022-103
**Late Quaternary aeolian-fluvial palaeoarchives along dunefield margins**
Lotem Robins, Joel Roskin, Lotan Edeltin, Revital Bookman, LuPeng Yu, and Noam Greenbaum

18:15–18:30 | ICG2022-199
**Another one bites the quartz? How silica dissolution contributes to the development of ruiniform relief in the Central European sandstone tablelands?**
Filip Duszyński, Wojciech Bartz, Barbara Woronko, Kacper Jancewicz, Piotr Migoń, and Francesco Sauro

18:30–18:45 | ICG2022-287
**The role of groundwater in forming theatre-headed valleys in unconsolidated sediments and bedrock**
Aaron Micallef

18:45–19:00 | ICG2022-133
**The genesis and development of large-scale erosion surfaces – insights from the Sinai-Israel micro plate**
Avni Yoav

**Poster**

**Attendance**: Thu, 15 Sep, 16:30–16:45 | Poster area
**Display time**: Thu, 15 Sep 09:00–Fri, 16 Sep 19:00
**Chairpersons**: Katja Laute, Adélia Nunes, Achim A. Beylich

P20 | ICG2022-47
**The IAG Working Group on Denudation and Environmental Changes in Different Morphoclimatic Zones (DENUCHANGE): Scientific need, activities and outcomes since the year 2017**
Achim A. Beylich and the DENUCHANGE Team

P21 | ICG2022-46
**Climate and anthropogenic impacts on denudation and sedimentary source-to-sink fluxes in the boreal mountain basin of lake Selbusjøen in central Norway**
Achim A. Beylich and Katja Laute
Morphological changes due to a high-magnitude flood in a steep Andean stream
Luca Mao and Ricardo Carrillo

Dynamics of scree slopes in forested environments: processes, modelling, and Holocene evolution
Daniel Germain and Ludwig Stabile-Caillé

Assessing debris-flow activity and geomorphic changes caused by an extreme rainstorm: the case study of the Liera catchment (Dolomites, northeastern Italy)
Giorgia Macchi, Stefano Crema, Gabriella Boretto, Giovanni Monegato, Barbara De Fanti, Lorenzo Marchi, and Marco Cavalli

Anthropogenic-enhanced erosion following the Neolithic Revolution in the Southern Levant
(withdrawn)
Nicolas Waldmann, Yin Lu, Dani Nadel, and Shmuel Marco

Combining morphological and sedimentological investigation with $\chi$ index and Gilbert metrics for analysis of drainage rearrangement and divide migration in a plateau region
Maira Oneda Dal Pai, André Augusto Rodrigues Salgado, Michael Vinicius de Sordi, Osmar Abílio de Carvalho Junior, and Eduardo Vedor de Paula

Boundary conditions of barchans development on a tideless sand beach
Maciej Dłużewski, Joanna Oliwia Tomczak, and Joanna Rotnicka-Dłużewska

The central Alentejo plateaus: a review of the regional relief units
António Martins, Noel Moreira, António Araújo, and Diamantino Pereira

The landscape in environmental impact assessments of wind farms in Rio Grande do Sul, Brazil
Andréia Nunes and Roberto Verdum

Landscape and rice culture of the São Gonçalo Channel Plain (Rio Grande do Sul - Brazil)
Karla Cassiano and Roberto Verdum
Hydrogeomorphological repercussions of anthropic topographical signatures in the north of Portugal: the documented cases of the Abadim and Piscaredo Levadas

Renato Emanuel Silva, Antonio Avelino Batista Vieira, Francisco da Silva Costa, and Silvio Carlos Rodrigues

Morphologic evolution of a Semiarid Relief: The case of Chapada do Araripe (Ceará, Brazil)

José Oliveira, Leonardo Santos, and Lionel Siame

Soil erosion response to land-use change in landscapes sensitive to desertification: a study case in Beira Baixa (Portugal)

Adélia Nunes, João Gonçalves, and Albano Figueiredo
ICG2022-6  Climatic Geomorphology
Conveners: Andrea María Coronato, Stella Moreiras, Dirce Suertegaray, Aude Nuscia Taïbi, António Rochette

Orals
Tue, 13 Sep, 09:00–10:30| Room Sala Inês de Castro-C1E

Poster
Attendance Tue, 13 Sep, 10:30–10:45
Display Mon, 12 Sep, 09:00–Tue, 13 Sep, 19:00| Poster area

Orals:
Tue, 13 Sep | Room Sala Inês de Castro-C1E
Chairpersons: Andrea María Coronato, Aude Nuscia Taïbi

09:00–09:15|ICG2022-393
Environmental changes during the Late glacial period inferred from sedimentological archives of NE Poland, Lithuania and Belarus
Tomasz Karasiewicz, Anna Hrynowiecka, Dominik Pawłowski, Monika Rzodkiewicz, and Piotr Weckwerth

09:15–09:30|ICG2022-349
Wind regime change from mis 5.5 aeolian dunes in the Apulia region. A key for the reconstruction of a Mediterranean pressure pattern during the last interglacial.
Vincenzo De Santos, Giovanni Scardino, Giovanni Scicchitano, Jose Eugenio Ortiz, Yolanda Sánchez-Palencia, and Massimo Angelo Caldara

09:30–09:45|ICG2022-149
Geomorphological and environmental responses to climatic changes in the Fuegian steppe, southern south America
Andrea María Coronato, Ana María Borromei, Marilén Fernández, Lorena Musotto, Adriana Mehl, Juan Federico Ponce, Soledad Candel, Cecilia Laprida, and Gabriela Cusminsky

09:45–10:00|ICG2022-51
Geomorphological effects of tropical cyclones in Costa Rica
Adolfo Quesada-Román

10:00–10:15|ICG2022-100
Impact of climate change on eco-geomorphic systems and desertification
Hanoch Lavee

10:15–10:30|ICG2022-238
Current soil problematics in the Tulum valley, related to climate change and anthropic use (withdrawn)
María Agostina Grigolo, Aixa Inés Rodríguez, Federico Lince Klinger, and Maria Alejandra Pittaluga
Poster

**Attendance**  Tue, 13 Sep, 10:30–10:45
**Display**  Mon, 12 Sep, 09:00–Tue, 13 Sep, 19:00|Poster area
**Chairpersons:** Aude Nuscia Taïbi, Andrea María Coronato

P12 | ICG2022-152
**Morphological characterization of the cold-air pools of Abruzzo Region (Central Italy) and proposal for the creation of morphoclimatic sites**
**Massimiliano Fazzini,** Giorgio Paglia, and Enrico Miccadei

P13 | ICG2022-587
**Soil erosion under extreme rainfall modeled using a radar-runoff-nowcasting-system**
**Rossano Ciampalini,** Ascanio Rosi, Samuele Segoni, Andrea Antonini, Alberto Ortolani, Francesca Caparrini, Enrica Caporali, and Sandro Moretti

P14 | ICG2022-590
**Implementing a cartographic repository of the postglacial Antarctic paleo-shorelines**
**Marina Zingaro,** Maria Cristina Salvatore, Carlo Baroni, Domenico Capolongo, Giuseppe Mastronuzzi, Giovanni Scicchitano, Giovanni Scardino, and Matteo Vacchi
ICG2022-7  **Mountain Geomorphology**  
Conveners: Pedro Val, Monique Fort, Samuel McColl

Orals  
Tue, 13 Sep, 11:00–16:30, 17:00–19:00|Room Sala Aeminium-C1A (b)

Poster  
Attendance Tue, 13 Sep, 16:30–16:45  
Display Mon, 12 Sep, 09:00–Tue, 13 Sep, 19:00|Poster area

Orals  
Tue, 13 Sep, 11:00–16:30, 17:00–19:00|Room Sala Aeminium-C1A (b)  
**Chairpersons**: Monique Fort, Samuel McColl

11:00–11:15  
Introduction session

11:15–11:30|ICG2022-4  
**A general systems approach to mountain geomorphology** (Invited)  
*Olav Slaymaker* and Eric Leinberger

Glaciation, deglaciation and geomorphic Impacts

11:30–11:45|ICG2022-118  
**Timing of deglaciation and Late Glacial and Holocene infilling of the Ticino valley between Biasca and Lago Maggiore (Southern Switzerland)**  
*Cristian Scapozza*, Daphné Giacomazzi, Dorota Czerski, Sarah Kamleitner, Susan Ivy-Ochs, Domenico Mazzaglia, Nicola Patocchi, and Marco Antognini

11:45–12:00|ICG2022-614  
**Glacial-periglacial transition in the northern Central Pyrenees from the Bølling–Allerød to the Younger Dryas**  
*Marcelo Fernandes*, Marc Oliva, Gonçalo Vieira, José María Fernández-Fernández, David Palacios, Julia García-Oteyza, Josep Ventura, and Irene Schimmelpfennig

12:00–12:15|ICG2022-141  
**Large landslides are concentrated along Patagonian Ice Sheet margin**  
*Míchal Břežný*, Tomáš Pánek, Stephan Harrison, Elisabeth Schönfeldt, and Diego Winocur

12:15–12:30|ICG2022-481  
**Modeling feedbacks between lithologic contrasts, erosion, and sediment production in layered landscapes**  
*Grace Guryan*, Joel Johnson, and Nicole Gasparini

Lunch break
Chairpersons: Monique Fort, Samuel McColl

14:30–14:40
Present processes and potential hazards

14:40–14:55|ICG2022-508
The influence of river-hillslope interactions on fluvial hazards in the Himalaya (invited)
Kristen Cook, Christoff Andermann, Bijaya Puri, Wolfgang Schwanghart, and Basanta Raj Adhikari

14:55–15:10|ICG2022-20
Quantifying the Rapid Expansion and Outburst Susceptibility of Cascading Moraine-dammed lakes in the Sikkim Himalaya: The Case of Gurudongmar Lake Complex
Arindam Chowdhury, Tomáš Kroczek, Sunil Kumar De, Vit Vilímek, Milap Chand Sharma, and Manasi Debnath

15:10–15:25|ICG2022-23
Modern landscape change in High Mountain Asia (1950-present)
Dongfeng Li, Xixi Lu, Ting Zhang, Desmond Walling, Stephan Harrison, Dan Shugar, Michele Koppes, Stuart Lane, and Tobias Bolch

15:25–15:40|ICG2022-244
Temporal recurrence of hazardous rock avalanches in Sierra de La Sobia (Cantabrian Mountains, Spain)
Laura Rodríguez-Rodríguez, Francisco José Fernández-Rodríguez, Rosana Menéndez-Duarte, Valery Guillou, Beatriz Puente-Berdasco, Vincent Rinterknecht, Georges Aumaître, Karim Keddadouche, and Didier Bourlès

15:40–15:55|ICG2022-330
Quantitative assessment of the rockwall-talus slope system morphodynamics using TLS monitoring data (Tatra Mts., Poland).
Zofia Rączkowska, Jarosław Cebulski, Bogdan Gądek, and Joanna Kajdas

15:55–16:10|ICG2022-173
Rock slope and rockfall dynamics in flysch formation under mid-latitude cold climate
Francis Gauthier, Tom Birien, and Francis Meloche

16:10–16:25|ICG2022-137
Large landslides and glacial lakes: a new chapter of the Patagonian Ice Sheet story
Tomáš Pánek, Michal Břežný, Elisabeth Schönfeldt, and Diego Winocur

16:25–16:30
Discussion

Coffee break and poster session
Chairpersons: Samuel McColl, Monique Fort

17:00–17:05
Environmental change, and human actions & impacts

17:05–17:20|ICG2022-598
Extreme rainfall induced landslides and landscape evolution in the mountainous region of Rio de Janeiro state, SE-Brazil: geochronological and paleoenvironmental evidences.
Ana Carolina Facadio, Ana Luiza Coelho Netto, Kita Macario, Ortrud Monika Barth, and Karoline Ishimine

17:20–17:35|ICG2022-479
Distribution of shallow landslides in tropical mountains based on time-series of high-resolution satellite data and UAV surveys: a case study of Eje Cafetero, Andes, Colombia
Aleksandra Tomczyk and Marek Ewertowski

17:35–17:50|ICG2022-151
Proglacial geomorphic disturbances drive the spatial distribution of the rare alpine species Trifolium Saxatile All.
Géraud de Bouchard d'Aubeterre, Irène Till-Bottraud, Erwan Roussel, Noémie Fort, Léa Bizard, Nicolas Tissot, Eduardo González, Frédéric Liébault, Stéphane Petit, Jérémy Pringault, and Dov Corenblit

17:50–18:05|ICG2022-138
Water origin and quality of rock glacier springs. Case studies in the Swiss Alps.
Chantal Del Siro, Cristian Scapozza, Marie-Elodie Perga, and Christophe Lambiel

18:05–18:20|ICG2022-166
Rock wall freeze-thaw dynamic in a climate change context
Tom Birien, Francis Gauthier, and Daniel Fortier

18:20–18:35|ICG2022-622
Spatial distribution of agricultural terraces according to physical and anthropic characterization in a Mountainous Mediterranean catchment
Josep Fortesa, Julián García-Comendador, Jaume Company, Maurici Ruiz, and Joan Estrany

18:35–18:50|ICG2022-529
The effect of natural infrastructure on water erosion mitigation in the Andes (invited)
Veerle Vanacker, Armando Molina, Miluska Rosas-Barturen, Vivien Bonnesoeur, Francisco Román-Dañobeytia, Boris F. Ochoa-Tocachi, and Wouter Buytaert

18:50–19:00
General discussion and closing of the session
Poster

**Attendance:** Tue, 13 Sep, 16:30–16:45

**Display time:** Mon, 12 Sep 09:00–Tue, 13 Sep 19:00 | Poster area

**Chairpersons:** Monique Fort, Samuel McColl

P15 | ICG2022-571
Ancient and young landforms coexist in a high relief landscape in the Brazilian continental interior
Karina P. P. Marques, Marcilene dos Santos, Daniel Peifer, and Pablo Vidal-Torrado

P16 | ICG2022-548
Mapping impact of landslides on glacier dynamics based on medium-resolution satellite data
Marek Ewertowski and Aleksandra Tomczyk

P17 | ICG2022-159
Long-term development of the sediment dynamics of proglacial streams in three alpine catchments
Sarah Betz-Nutz, Tobias Heckmann, Moritz Altmann, Jakob Rom, Fabian Fleischer, Toni Himmelstoß, Florian Haas, and Michael Becht

P18 | ICG2022-97
The degree of complexity in sediment cascades in relation to bedrock features in small mountain catchments - The case of the Buscagna catchment (Lepontine Alps)
Irene Maria Bollati, Marco Cavalli, Anna Masseroli, Cristina Viani, and Manuela Pelfini

P19 | ICG2022-48
Environmental controls and spatiotemporal variability of contemporary chemical and mechanical denudation in the cold climate mountain environment of the upper Driva drainage basin in central Norway
Achim A. Beylich and Katja Laute

P20 | ICG2022-452
Reconstruction of soil erosion and flood variability from Lake Arreo watershed (Northern Spain) during the last millennium
Juan Pablo Corella, Gerardo Benito, Blas L. Valero-Garcés, Mikel Calle, Vania Stefanova, Rocío Millán, Anne-Catherine Favre, and Bruno Wilhelm

P21 | ICG2022-577
Pre-failure topography implementation to predict landslides using a bivariate statistical model
João Paulo Carvalho Araújo, Cesar Falcão Braella, José Luís Gonçalves Moreira da Zêzere, and Nelson Ferreira Fernandes

P22 | ICG2022-117
Schmidt hammer exposure-age dating of the debris accumulation of three large rock slope failures in the Southern Swiss Alps
Alessandro De Pedrini, Chantal Del Siro, Daphné Giacomazzi, Christian Ambrosi, and Cristian Scapozza

P23|ICG2022-142
Surface macro-fabric analysis of screes in the Ubiñas Massif (Cantabrian Mountains NW Spain)
Sergio Alberto Peña-Pérez, Amelia Gómez Villar, and Rosa Blanca González Gutiérrez

P24|ICG2022-94
Influence of bedrock on sedimentary processes on two adjacent alluvial fans (Julian Alps, NW Slovenia)
Andrej Novak, Tomislav Popit, and Andrej Šmuc
ICG2022-8 Glacial and Periglacial Geomorphology
Conveners: Gonçalo Vieira, Greg Wiles, Jorge Rabassa, Rosemary Vieira, Barbara Woronko

Orals
Thu, 15 Sep, 09:00–16:30, 17:00–19:00| Room Sala Mondego-C2A, Fri, 16 Sep, 09:00–10:30, 14:30–16:15| Room Sala Mondego-C2A

Poster
Attendance Fri, 16 Sep, 10:30–11:00
Display Thu, 15 Sep, 09:00–Fri, 16 Sep, 19:00| Poster area

Orals
Thu, 15 Sep | Room Sala Mondego-C2A
Chairpersons: Barbara Woronko, Gonçalo Vieira

Periglacial Geomorphology - 1

09:00–09:15|ICG2022-556
Factors influencing the ground thermal regime of rock glaciers in the marginal periglacial environments of Southern Carpathians
Alexandru Onaca, Florina Ardelean, Flavius Sîrbu, and Oana Berzescu

09:15–09:30|ICG2022-165
Deep-seated gravitational slope deformation and rock-slope failures deposits in Iceland: inventory, dating and role in landscape evolution
Denis Mercier, Emilie Portier, Armelle Decaulne, and Etienne Cossart

09:30–09:45|ICG2022-224
Palaeoclimatic and morphodynamic implications from boulder dominated peri- and paraglacial landforms in two areas of South Norway
Philipp Marr, Stefan Winkler, and Jörg Löffler

09:45–10:00|ICG2022-323
Molards, a new geomorphological tool for the identification of permafrost degradation in periglacial terrains around the globe
Costanza Morina, Susan Conway, Philip Deline, Florence Magnin, Axel Noblet, Kristian Svennevig, Antoine Lucas, Alexander Strom, Stuart Dunning, and Reginald Hermanns

10:00–10:15|ICG2022-572
Insights on the morphodynamical evolution of an alpine Little Ice Age glacier forefield (Ritord, western Swiss Alps)
Julie Wee and Reynald Delaloye

10:15–10:30|ICG2022-179
Fluvial stream dynamics and morphology on Byers Peninsula (Livingston Island, Antarctic Peninsula region): a model of landscape evolution in deglaciated areas
Jose A. Ortega-Becerril, Thomas Schmid, Luis Carcavilla, and Jeronimo López-Martínez
Coffee break and poster session

**Chairpersons:** Gonçalo Vieira, Barbara Woronko
Periglacial Geomorphology - 2

11:00–11:15 | ICG2022-655
**Permafrost distribution in the Southern Carpathians, Romania, derived from statistical modeling**

11:15–11:30 | ICG2022-90
**2D-frost weathering indices for rock walls**
Justyna Czekirda, Bernd Etzelmüller, Alan W. Rempel, and Sebastian Westermann

11:30–11:45 | ICG2022-258
**Molards as proxies of permafrost degradation: investigating physical downscaled models**
Calvin Beck, Marianne Font, Susan Conway, Meven Philippe, and Emilie Lagniel

11:45–12:00 | ICG2022-303
**Multi-stage evolution of frost-induced microtextures on the surface of quartz grains – experimental study**
Martyna E. Górśka and Barbara Woronko

12:00–12:15 | ICG2022-542
**Derivation of palaeo-air temperature conditions from past periglacial features**
Tomáš Uxa and Marek Kršek

12:15–12:30 | ICG2022-105
**Late Weichselian history of the Moravian Sahara cold-climate dune field, Lower Moravian Basin, Czechia**
Jakub Holuša, Daniel Nývlt, Barbara Woronko, František Kuda, Piotr Moska, Michael Matějka, and Radim Stuchlík

Lunch break

**Chairpersons:** Greg Wiles, Jorge Rabassa
Glacial Geomorphology - 1

14:30–14:45 | ICG2022-131
**First glacial chronology in Corsica (Western Mediterranean Sea) based on 10Be moraine dating: evidence of two glacier extents since the Last Glacial Maximum**
Marie Chenet, Daniel Brunstein, Vincent Jomelli, and Aster Team
Reconstructions of the last deglaciation in the Cantal and the Aubrac mountains (Massif Central, France) and paleoclimatic implications
Arthur Ancrenaz, Emmanuelle Defive, Stéphane Pochat, Vincent Rinterknecht, Laura Rodriguez-Rodriguez, Alexandre Poiraud, Irene Schimmelpfennig, Régis Braucher, Vincent Jomelli, Olivier Bourgeois, and Johannes Steiger

Cosmogenic 36Cl glacial chronology and ice-flow modelling (PISM) of Aladağ and Karanfil Mountains, Central Taurus Range, Turkey
Attila Ciner, Mehmet Akif Sarikaya, Oğuzhan Köse, Adem Candaş, Cengiz Yıldırım, and Klaus Wilcken

On the age and extent of the Serra da Peneda glaciation, NW Portugal
Paulo Pereira, Steven Binnie, Tibor Dunai, Renato Henriques, and Diamantino Pereira

New insights into the Last Glacial Maximum in the Maritime Alps from paleoglacier reconstructions and 10Be surface exposure dating
Lukas Rettig, Sarah Kamleitner, Susanivy-Ochs, Giovanni Monegato, Paolo Mozzi, Adriano Ribolini, Brice R. Rea, Lucy Ashpitel, and Matteo Spagnolo

Geomorphometry of cyclical semicentric and semicurvate till ridges in Rajgród (NE Poland) as a record of the last ice sheet dynamics
Marek Chabowski, Piotr Weckwerth, Wojciech Wysota, and Aleksander Adamczyk

3D modelling of the maximum ice extent and thickness of the palaeoglacier of Serra do Soajo, Northern Portugal
Edgar Figueira, Alberto Gomes, Augusto Pérez-Alberti, and Helder I. Chaminé

The use of Schmidt-hammer for relative-age dating of glacial, periglacial and paraglacial deposits in NW Spain
Javier Santos-González, Rosa Blanca González-Gutiérrez, Amelia Gómez-Villar, José María Redondo-Vega, Sergio Alberto Peña-Pérez, Adrián Melón-Nava, and Alfonso Pisabarro-Pérez

Coffee break and poster session

Chairpersons: Jorge Rabassa, Greg Wiles
Glacial Geomorphology - 2

Neoglacial oscillations in the northern Fildes Peninsula, King George Island, Antarctica
Marc Oliva, David Palacios, José M. Fernández-Fernández, Marcelo Fernandes, Irene Schimmelpfennig, Gonçalo Vieira, Dermot Antoniades, Augusto Pérez-Alberti, and Julia García-Oteyza
Spatio-temporal reconstruction of the post-glacial sea-level evolution in the Ross Sea, Antarctica
Ciro Cerrone, Maria Cristina Salvatore, Carlo Baroni, Brenda Hall, and Matteo Vacchi

Geomorphological constraints for tropical glacier retreat description and modelling: the MOTICE project in Nevado Coropuna and Quelcaya icecaps (Perú).
Ramón Pellittero, Antonio Fernández-Fernández, Alan Atkinson, Luis Mariano Del Río, Jeremy Ely, Ricardo Jesús Gómez, Álvaro Navarro, José Pasapera, Adriano Ribolini, Nelson Santillán, José Úbeda, and Marcos Valcárcel

Glaciers and Palaeoclimatic Reconstructions in the Changme Khangpu Basin, Eastern Himalayas, INDIA
Manasi Debnath, Milap Chand Sharma, Hiambok Jones Syiemlieh, and Arindam Chowdhury

Glacial Lakes in the Chhombo Chhu Watershed (Sikkim Himalaya, India): Inventory, Classification, Evolution, and Potential GLOFs Assessment
Arindam Chowdhury, Sunil Kumar De, Milap Chand Sharma, and Manasi Debnath

Multidecadal evolution of high arctic glacial lake systems and their role in landscape paraglaciation - a case study of crammerbraene, svalbard
Iwo Wieczorek, Piotr Zagórski, Mateusz Strzelecki, Jacob Yde, and Łukasz Stachnik

Orals:

Fri, 16 Sep | Room Sala Mondego-C2A
Chairpersons: Barbara Woronko, Gonçalo Vieira
Periglacial Geomorphology - 3

The Rock Glacier Inventories and Kinematics (RGIK) Action Group: status and future directions
Sebastián Vivero and Cécile Pellet

Long-term development and decoupled kinematics of two adjacent rock glaciers in the Swiss Alps
Christophe Lambiel, Sebastián Vivero, Sébastien de Meris, Georgina King, and Cristian Scapozza
New observations on the kynematics of Hurd rockglacier (Livingston Island, Antarctic Peninsula)
Gonçalo Vieira, Gonçalo Prates, Gabriel Goyanes, Miguel Angel de Pablo, Mohammad Farzamian, Marc Oliva, António Correia, Ana Patrícia Valadares, Joana Baptista, Carla Mora, and Pedro Pina

Schmidt-hammer exposure-age dating (SHD) of periglacial landforms and its potential for palaeoclimatic and morphodynamic interpretation
Stefan Winkler

Dynamics of the “La Vueltona” in Picos de Europa (Spain) debris cones during the period 2009-2018.
José Juan de SanJosé Blasco, Enrique Serrano Cañadas, Mariló López González, Estrella Alonso Pérez, and Álvaro Gómez Gutiérrez

Response of a Large Periglacial River to the current Climate Change
Emmanuèle Gautier, Thomas Dépret, Nathalie Thommeret, François Costard, Marie Mousset, Pavel Konstantinov, Alexander Fedorov, and Clément Virmoux

Coffee break and poster session

Chairpersons: Greg Wiles, Jorge Rabassa
Glacial Geomorphology - 3

Calcite cementation as a result of subglacial processes - the Saalian ice-sheet case study
Barbara Woronko, Karolina Ulbin, Katarzyna Skolasińska, Joanna Miroślaw-Grabowska, Małgorzata Pisarska-Jamroży, Martyna Górka, and Karina Apolinarska

Glacial curvilineations (GCLs) at the southern periphery of the last Scandinavian Ice Sheet: distribution, morphological characteristics and origin
Wojciech Wysota, Aleksander Adamczyk, Jan A. Piotrowski, and Piotr Weckwerth

Geomorphology of subglacial ribbed-Rogen moraines of Early Pleistocene age, southernmost Patagonia, Argentina
Jorge Rabassa, Bettina Ercolano, and Pau Montero Estaña

Types of glacial outburst flood outlets differentiated by englacial feeding systems at the end of the Weichselian glaciation (NE Poland)
Piotr Weckwerth, Ewyta Kalińska, Wojciech Wysota, Arkadiusz Krawiec, and Marek Chabowski
Dating a flood: the first attempt to determine the age of the outburst megadune deposits in NE Poland
Edyta Kalinska, Piotr Weckwerth, Helena Alexanderson, Jan A. Piotrowski, and Wojciech Wysota

Characterizing the role of supraglacial debris thickness variability on underlying ice ablation
Calvin Beck, Lindsey Nicholson, Anna Wirbel, and Thorsten Simon

Classification of Glacial Cirques in Slovenia
Klemen Cof, Uroš Stepišnik, Manja Žebre, and Matej Lipar

Poster

Attendance: Fri, 16 Sep, 10:30–11:00
Display time: Thu, 15 Sep 09:00–Fri, 16 Sep 19:00 | Poster area
Chairpersons: Jorge Rabassa, Greg Wiles, Barbara Woronko

P34 | ICG2022-329
Ground surface temperature variation across scales on northeastern Qinghai-Tibet Plateau
Raul-David Şerban, Giacomo Bertoldi, Huijun Jin, and Mihaela Şerban

P35 | ICG2022-121
Geomatic techniques applied to the rock glacier of Corral del Veleta (Spain) during the period 2001-2019.
José Juan de Sanjosé Blasco, Alan D. Atkinson, Manuel Sánchez Fernández, Antonio Gómez Ortiz, Ferran Salvador Franch, and Montserrat Salvá Catarineu

P36 | ICG2022-394
State of rock glaciers in the Rushan Range of Tajikistan, Western Pamir
Qi Qi Ma and Takashi Oguchi

P38 | ICG2022-295
Variability of the thermal regime of the frozen islands in the Lena floodplain, Yakutia
Francois Costard, Emmanuelle Gautier, Pacha Konstantinov, Frederic Bouchard, Antoine Séjourné, Laure Dupeyrat, and Alex Fedorov

P39 | ICG2022-302
Record of micro-scale frost weathering in the contemporary active-layer deposits – a case study of Kaffiøyra Plain, NW Spitsbergen
Karolina Ulbin, Barbara Woronko, and Ireneusz Sobota

P40 | ICG2022-205
Unclassified nival sediment’s grain size distribution
Pawel Kroh and Piotr Dolnicki
Megadunes and their sedimentary successions on the proximal part of the Augustów Sandur, NE Poland
Piotr Weckwerth, Wojciech Wysota, Jan Piotrowski, Arkadiusz Krawiec, Marek Chabowski, Edyta Kalińska, and Aleksander Adamczyk

Glacial Geomorphology

New Late Quaternary Glaciation Areas in Western Taurus (SW Turkey)
Cihan Bayrakdar, Zeynel Çilğin, Ergin Canpolat, and Ferhat Keserci

Glacial geomorphology of the southernmost sector of the last Scandinavian Ice Sheet (Wielkopolska, western Poland): The process-form imprints of ice streams, ice lobes and diversified types of ice sheet retreat
Marek Ewertowski, Izabela Szuman, Jakub Kalita, Leszek Kasprzak, and Aleksandra Tomczyk

New observations on the geomorphological evolution of the Nave de Santo António (Serra da Estrela, Portugal).
João Nunes, Gonçalo Vieira, Mohammad Farzamian, Conceição Freitas, and Pedro Pina

Major deglaciation of Young Sound-Tyrolerfjord (NE Greenland) during the Early Holocene
Marc Oliva, Julia Garcia-Oteyza, David Palacios, José María Fernández-Fernández, Nuria de Andrés, Dermot Antoniades, Vincent Jomelli, and Irene Schimmelpfennig

Holocene glacial oscillations in the Tyroler Valley, NE Greenland
Julia Nieves García de Oteyza de Ciria, Marc Oliva, David Palacios, José María Fernández-Fernández, Marcelo Fernandes, Irene Schimmelpfennig, and Alicia Medialdea

Morphological signatures of the glacial lake-outburst flood and their paleohydraulic implications in the Rospuda valley (NE Poland)
Dhiraj Kumar and Piotr Weckwerth
ICG2022-9  **Tectonic and Seismic Geomorphology**
Conveners: Efthimios Karymbalis, Marta Della Seta, Giandomenico Fubelli, James P. McCalpin, Maria Araújo, António Gomes

Orals
Mon, 12 Sep, 14:30–16:30, 17:00–19:00|Room Sala Aeminium-C1A (b)

Poster
Attendance Mon, 12 Sep, 16:30–16:45
Display Mon, 12 Sep, 09:00–Tue, 13 Sep, 19:00|Poster area Orals:

Orals
Mon, 12 Sep | Room Sala Aeminium-C1A (b)
**Chairpersons:** Marta Della Seta, Efthimios Karymbalis, Maria Araújo

14:30–14:45|ICG2022-340
**The marine terrace staircase of the Metaponto coastal belt, southern Italy: from geomorphological mapping to uplift rate estimates revised**
*Giuseppe Corrado*, Paola Di Leo, Dario Gioia, and Marcello Schiattarella

14:45–15:00|ICG2022-369
**Quantifying active faulting using marine terraces, Kythera Island, Greece**
*Konstantinos Tsanakas*, Julius Jara-Muñoz, Efthimios Karymbalis, Cengiz Yildirim, Kevin Pedoja, Dimitrios-Vasileios Batzakis, and Diamantina Griva

15:00–15:15|ICG2022-540
**Marine terraces in the Tyrrenian Sea margin of the Southern Apennines (Italy): new constraints on differential vertical motions from dated paleoshorelines**
*Ciro Cerrone*, Alessandra Ascione, Gaetano Robustelli, Michele Soligo, and Paola Tuccimei

15:15–15:30|ICG2022-36
**Lithophyllum rims as markers of palaeoseismic events and relative sea-level change in the Dubrovnik archipelago, Southern Adriatic, Croatia**
*Sanja Faivre*, Tatjana Bakran-Petričoli, Marijan Herak, Jadranka Barešić, Davor Horvatić, and Damir Borković

15:30–15:45|ICG2022-417
**Earthquakes that Uplifted Cyprus in the last 4 ka**
*Cengiz Yildirim*, Daniel Melnick, Okan Tüysüz, Cevza Damla Altınbaş, Julius Jara-Munoz, Konstantinos Tsanakas, Orkan Özcan, and Manfred Strecker
15:45–16:00 | ICG2022-234
**Geomorphology and geochronology of the coseismic? Emad Deh rock avalanche of the Zagros Mountains**
Emad Deh

16:00–16:15 | ICG2022-670
**The role of rock mass strength in landscape development based on the rating of natural rock masses in the Bükk Mts., Hungary**
Richard William McIntosh and Jamal Aldin Hosseini Seyed

16:15–16:30 | ICG2022-308
**Late Quaternary large-scale folds in intracratonic central Amazonia evidenced from tectonic geomorphology**
Dilce Rossetti, Davi L. Vasconcelos, Francisco H. R. Bezerra, Marcio M. Valeriano, Fabio C. Alves, and Eder C. Molina

Coffee break and poster session
Chairpersons: António Gomes, Efthimios Karymbalis

17:00–17:15 | ICG2022-526
**Morphotectonic evolution of eastern Sardinia: relations between inland and the continental margin**
Valentino Demurtas, Paolo Emanuele Orrù, and Giacomo Deiana

17:15–17:30 | ICG2022-263
**Tectonic geomorphology of the Acıgöl Graben, western Turkey**
Esra Tunçel Gökkaya, İhsan Çiçek, and Francisco Gutiérrez

17:30–17:45 | ICG2022-296
**Neotectonics and Seismicity in the southeast edge of the Pantanal Basin (Mato Grosso do Sul, Brazil)**
Edna Facincani, Marcelo Assumpção, Pedro Cunha, and Estevão Tadeu

17:45–18:00 | ICG2022-368
**Assessment of relative tectonic activity in the Trichonis Lake graben (Western Greece) a combined approach using geomorphometry and Self Organising Maps**
Efthimios Karymbalis, Kanella Valkanou, Giandomenico Fubelli, Maria Ferentinou, Konstantinos Tsanakas, and Philip Giles

18:00–18:15 | ICG2022-416
**Detecting differential surface uplift at the orogen scale by topography and river network features: the Southern Apennines case study (Italy)**
Ettore Valente, Ciro Cerrone, and Alessandra Ascione
18:15–18:30|ICG2022-57
**Geomorphology and geochronology of the Quaternary fluvial terraces of the Tesino River: new constraints to the landscape evolution in the piedmont area of central-northern Apennines of Italy**
Francesco Troiani, Michele Delchiaro, Natacha Gribenski, Marta Della Seta, Giulia Iacobucci, Daniela Piacentini, and Marta Zocchi

18:30–18:45|ICG2022-370
**Knickpoint extraction for the evaluation of active tectonics: The case of Evia Island, Greece**
Kanella Valkanou, Efthimios Karymbalis, Emmanuel Vassilakis, Mauro Soldati, Dimitris Papanastassiou, and Kalliopi Gaki-Papanastassiou

18:45–19:00|ICG2022-418
**Deciphering the spatial distribution of surface uplift in a sector of the Andean chain and its implications for supergene ore deposits formation**
Ettore Valente, Anna Sorrentino, and Nicola Mondillo

Posters

**Attendance:** Mon, 12 Sep, 16:30–16:45 |
**Display time:** Mon, 12 Sep 09:00–Tue, 13 Sep 19:00 | Poster area

**Chairpersons:** Marta Della Seta, António Gomes

P25|ICG2022-119
**The uplift of the Eastern Anatolian Plateau unraveled by river network analysis.**
Paola Molin, Andrea Sembroni, Claudio Faccenna, and Paolo Ballato

P26|ICG2022-120
**Asymmetric uplift in the NW Iranian Plateau: An insight from the dynamic divide migration of Ardebil Basin**
Mohammad Moumeni, Michele Delchiaro, Marta Della Seta, and Reza Nozaem

P27|ICG2022-271
**Geomorphic signature of active tectonics in European foreland basins: morphometric analysis of drainage network systems of Western Alps and Romanian Carpathians**
Victor Buleo Tebar, Mauro Bonasera, Ionut Sandric, Giandomenico Fubelli, and Viorel Ilinca

P28|ICG2022-562
**Surface analysis and geotectonic structure of Lavreotiki, Attica peninsula, Greece**
Vasileios Antoniou, George D. Bathrellos, and Hariklia D. Skilodimou

P29|ICG2022-717
**Topographic rejuvenation of an elevated post-rifting landscape with low contrasting rock strength(Southeast Brazil)**
Daniela Schievano de Campos, Marcilene dos Santos, Karina P. P. Marques, Alexandre Christófaro Silva, and Pablo Vidal-Torrado
Evidences of Late Quaternary Neo-Tectonics at Kirtinagar in Alaknanda Valley of Garhwal Himalaya, India
Devi Datt Chauniyal

Stream piracy and tectonic control on the evolution of drainage networks: A case study from the Island of Evia, Greece.
Kanella Valkanou, Efthimios Karymbalis, Konstantinos Tsanakas, Mauro Soldati, Dimitris Papanastassiou, and Kalliopi Gaki-Papanastassiou

Missing evidence of landscape transience: Examination of the knickzones in a steep marginal escarpment in the Korean Peninsula
Jongmin Byun

Morphotectonic Analysis of Uplifted Watersheds in the Santa Rosalía Basin, Baja California Sur, México.
Genaro Martinez-Gutierrez, Yahil Emmanuel Hernández-Salgado, José Luis Antinao, and Tina Niemi

Geological and morpho-tectonic analysis for defining active fault segmentation: case studies from the central Apennines, Italy
Girolamo Dixit Dominus, Deborah Maceroni, Emanuela Falcucci, Fabrizio Galadini, Stefano Gori, Paola Molin, Marco Moro, and Michele Saroli

Surveying of neotectonic structures and macro-seismic effects on the volcanic rocks of Western Lesvos. A case study: The earthquake in Skalochori, Lesvos (4.0 Mw) of 15 April 2021
Rafael Palaiopanis and Nikolaos Zouros

Morphostructural mapping of the Manamas Mountain, a Banda Arc fragment overthrusting on the Australian Continental Margin (Oecusse, Timor-Leste)
Fernando Carlos Lopes, João Pratas, and Victor Vicente

Mass wasting processes within the Glafkos gorge, Achaia, Western Greece
Aggelos-Leandros Vgenopoulos, Ioannis Koukouvelas, George D. Bathrellos, Konstantinos Nikolakopoulos, and Hariklia D. Skilodimou

A GIS-based study of factors related to landslides events in a tectonic active area
Hariklia D. Skilodimou, George Bathrellos, Vasileios Antoniou, Ioannis Koukouvelas, and Konstantinos Nikolakopoulos

P39 | ICG2022-570
Tectonic evolution and mass wasting within the Lefkada west coast
Georgios Pappas, Ioannis Koukouvelas, Konstantinos Nikolakopoulos, Efthymios Sokos, George D. Bathrellos, and Aggeliki Kyriou

P40 | ICG2022-376
Neotectonic influence on a delta landscape genesis downstream the Amazon River – North Brazil
Helen Machado, Fernando Villela, Marcos Pinheiro, and Paola Cianfarra

P41 | ICG2022-573
Beachrock and wave cut notches formation across the Epirus coast, NW Greece
Dimitrios Panagiotopoulos, Ioannis Koukouvelas, Konstantinos Nikolakopoulos, Dimitrios Papoulis, Paraskevi Lampropoulou, and George D. Bathrellos
ICG2022-10  **Fluvial Geomorphology**
Conveners: Vittoria Scorpio, Ana Lucía-Vela, António Martins, Ekaterina Matlakhova, André Salgado, Frédéric Liébault

Orals
Mon, 12 Sep, 14:30–16:30, 17:00–19:00|Room Sala Mondego-C2A, Tue, 13 Sep, 09:00–10:30, 11:00–16:30, 17:00–19:00|Room Sala Mondego-C2A

Poster
Attendance Tue, 13 Sep, 10:30–10:45
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Attendance Tue, 13 Sep, 16:30–16:45
Display Mon, 12 Sep, 09:00–Tue, 13 Sep, 19:00|Poster area

Orals

Mon, 12 Sep | Room Sala Mondego-C2A
**Chairpersons:** Vittoria Scorpio, Emmanuèle Gautier

**Fluvial systems in the Long-term**

14:30–14:45|ICG2022-33
**Large drainage rearrangement in South America: the capture of the high São Francisco catchment by the Grande (Paraná) River**
**André Salgado**, Eric Rezende, Rodrigo Paixão, and Paulo Castro

14:45–15:00|ICG2022-156
**Spatio-temporal floodplain evolution over the Holocene under the influence of valley constrictions, lateral fan input, and reworking of glacial deposits and the implications for river restoration.**
**Arved C. Schwendel** and David J. Milan

15:00–15:15|ICG2022-283
**Geomorphic markers of Quaternary tectonics in Westernmost Iberia: insights from the Lower Mondego River terraces (central Portugal)**
António Martins, **Pedro Cunha**, Margarida Gouveia, Alberto Gomes, Christophe Falguères, Martin Stokes, Pierre Voinchet, João Cabral, Jean-Jacques Bahain, and Gerardo de Vicente

15:15–15:30|ICG2022-322
**Discussion of the transition of endorheic to exoreic drainage of Cenozoic Basins in Galicia (NW of Iberia), the development of the ancestral transverse drainage to the Atlantic and the later stage of fluvial incision**
Pedro Proença Cunha and **Augusto Pérez-Alberti**
Microslag as a stratigraphic tracer to quantify floodplain processes during the last centuries
Geoffrey Houbrechts, Tomasz Kalicki, Paweł Przepióra, Bastiaan Notebaert, and François Petit

From endorheism to exorheism: The Atlantic draining Paraíba do Sul River Basin (Brazil) transition
Rodrigo Paixão, Marcelo Freitas, André Salgado, Luiz Guilherme Silva, Pedro Cunha, Antonio Alberto Gomes, António Martins, Julio Almeida, Miguel Tupinambá, and Marcelo Dantas

Fluvial fans and terraces in the foothills of the Eastern Cordillera of Colombia: morphology, sediments, and luminescence ages
Fabiano Pupim, Caio Breda, Carolina Leite, Ian Del Rio, Sebastian Gómez, André Sawakuchi, and Maurício Parra

The drainage reorganization during the Cenozoic in the Middle Vale of Paraíba do Sul: the influence of tectonic and neotectonic controls on drainage captures
Renato Villela Mafra Alvesda Silva, Nelson Ferreira Fernandes, Carolina Coelho do Vale, and Lucia Maria da Silva

Coffee break and poster session

Chairpersons: Frédéric Liébault, Arved Schwendel

Patterns and controls on fluvial incision in the lower Douro River (Western Iberia) following endorheic-exorheic drainage reorganization
António Gomes, Pedro Proença Cunha, António Martins, Martin Stokes, and Rui Fernandes

Chronology and dynamics of fluvial style transformation in the Younger Dryas – Holocene transition (lower San River, SEPoland)
Piotr Gębica, Anna Michno2, Mateusz Sobucki, Agnieszka Wacnik, and Sławomir Superson

Geomorphological adjustments in a partial avulsion: the Peixe River, Brazil
Eduardo Morais and Otávio Cristiano Montanher

Origin of the Yellow River
Baotian Pan, Zhenbo Hu, and David Bridgland
Remote sensing and fluvial geomorphology

18:00–18:15 | ICG2022-15
*Gustavo Nagel*, Steve Darby, and Julian Leyland

18:15–18:30 | ICG2022-208
Effective and sustainable river restoration: 4D monitoring of a large upland gravel-bed river
*Robert Williamson*, George Heritage, and Neil Entwistle

18:30–18:45 | ICG2022-35
Land-surface quantitative analysis of the alluvial fans along the northern margin of Damascus Basin (Syria): preliminary results and geomorphological mapping
*Giulia Iacobucci*, Michele Delchiaro, Francesco Troiani, Andrea Titolo, and Davide Nadali

18:45–19:00 | ICG2022-709
A new look to an old problem: using Gaussian Mixture Models and topo-bathymetric LiDAR data for morphological classification of large lowland rivers *(withdrawn)*
*Alex Andréault*, Stéphane Rodrigues, and Corentin Gaudichet

Orals

Tue, 13 Sep | Room Sala Mondego-C2A
**Chairpersons:** Frédéric Liébault, Vittoria Scorpio, Ronald Pöppl
Human impacts on channel morphology and sediment transport: managing and restoring altered channels

09:00–09:15 | ICG2022-62
Use of data about past river activity for delimiting an erodible river corridor: the Biała River, Polish Carpathians
*Hanna Hajdukiewicz* and Bartłomiej Wyżga

09:15–09:30 | ICG2022-66
Weirs effects on the sediment continuity of two lowland rivers (Orne et Vire rivers, France): implications for river restoration.
*Anne-Julia Rollet*, Romain Reulier, Guillaume Fantino, Simon Dufour, and Arthur Glais

09:30–09:45 | ICG2022-79
Long-term trajectory of an embankment fluvial system – the Loire River (France)
*Emmanuèle Gautier*, Clément Virmoux, Charlie Hureau, Ségolène Saulnier-Copard, and Tristan Douillard

09:45–10:00 | ICG2022-126
Can we make tufa grow? Understanding the hydraulic conditions affecting tufa growth.
*Antonia Foley* and Luca Mao
10:00–10:15 | ICG2022-291
Multi-parameter based Channel Health Assessment for Reach Prioritization along the River Silabati in Eastern India for Stream Restoration
Sayoni Mondal and Priyank Pravin Patel

10:15–10:30 | ICG2022-336
River channel adjustments in contrasting environments from the analysis of historical maps and aerial images: the Karst Dinarides vs. the Pannonian Basin
Katarina Pavlek, Sanja Faivre, and Ivan Čanjevac

Coffee break
Chairpersons: Vittoria Scorpio, Anne-Julia Rollet, Tomáš Galia

11:00–11:15 | ICG2022-414
Quantifying the short-term effects of instream gravel mining on the geomorphic unit diversity of an intermountain river
Manel Llena and Damià Vericat

11:15–11:30 | ICG2022-505
Indices Based Approach Appraisal of Anthropogenic Activities and its Impacts on Stream Power of a Plateau Origin River in India
Sumantra Sarathi Biswas and Padmini Pani

11:30–11:45 | ICG2022-582
A national catalog and an assessment tool for hydromorphological characterization of French rivers (Carhyce)
Frederic Gob, Nathalie Thommeret, Clelia Bilodeau, and Karl Kreutzenberger

11:45–12:00 | ICG2022-93
Vegetation dynamics and interactions with flows in dryland channels
Janet Hooke

12:00–12:15 | ICG2022-398
How fluvial habitat variables shape the regional distribution of a threatened freshwater mussel
Quintia Vaessen, Jean Van Campenhout, Geoffrey Houbrechts, and Alain Hambuckers

12:15–12:30 | ICG2022-362
Effect of water level variation on the channel width in the river mouth
Naoko Nagumo and Shinji Egashira

Lunch break
**Chairpersons:** Frederic Gob, Daniel Vázquez, Frédéric Liébault

Sediment transfers and connectivity in the river channels

14:30–14:45 | ICG2022-28

**Why is managing sediment (dis)connectivity in fluvial systems so important?**

Ronald Poeppl, Kirstie Fryirs, Jon Tunnicliffe, and Gary Brierley

14:45–15:00 | ICG2022-77

Downstream fining of bar sediments in a meandering river: variations and influence of lateral inputs in the upper Odra River

Lukáš Vaverka, Adriana Holušová, Zuzana Poledniková, and Tomáš Galia

15:00–15:15 | ICG2022-80

Virtual velocity of fluvial sediment using mine tailings as a tracer in a gravel-sand bed river in the Ozark Highlands (USA) (withdrawn)

Robert Pavlowsky and Scott Lecce

15:15–15:30 | ICG2022-128

Mountain managed streams as highways for reduced bedload transport

Tomáš Galia, Václav Škarpich, and Stanislav Ruman

15:30–15:45 | ICG2022-472

Suspended sediment budget in the Bananal Plain tropical wetlands, Araguaia River basin, Central Brazil (withdrawn)

Edipo Cremon, Daniel Araujo Ramos dos Santos, and Gabriel Pereira

15:45–16:00 | ICG2022-480

Sediment mobility recovery experiences: dam removal and sediment transfer through dams

Askoa Ibisate, J. Horacio García, Alfredo Ollero, Carles Ferrer, Daniel Vázquez-Tarrio, Juan Pedro Martín Vide, Iban Sánchez-Pinto, Xabier Herrero Otero, and Josu Ortiz

16:00–16:15 | ICG2022-530

Sediment Fingerprinting Tracer Conservativeness: Exploring the In-Channel Soil Properties variability

Julián García-Comendador, Núria Martínez-Carreras, Josep Fortesa, Jaume Company, Antoni Borràs, Edwin Palacio, and Joan Estrany

16:15–16:30 | ICG2022-597

Quantifying suspended-sediment cascade and dynamics in a Mediterranean mountainous river

Joan Estrany Bertos, Julián García-Comendador, Jaume Company, Miquel Febrer, Miguel Molina-Rotger, Adolfo Calvo-Cases, and Josep Fortesa

Coffee break and poster session
Chairpersons: Janet Hooke, Askoa Ibisate, Vittoria Scorpio

17:00–17:15 | ICG2022-737
**Detrital zircon U-Pb ages from geomorphology surfaces in the middle reaches of Yellow River**
Menghao Li, Zhenbo Hu, and Baotian Pan
Channel response to extreme events and flood hazard management

17:15–17:30 | ICG2022-87
**The role of extreme events and human activities in the transformation of the Himalayan river corridor (Darjeeling Himalayas, India)**
Pawel Prokop

17:30–17:45 | ICG2022-125
**Large-Scale Flood Model Simulations Reveal the Significant Role of Changing Channel Conveyance Capacity in Driving Altered Flood Hazard**
Steve Darby and the EVOFLOOD Team

17:45–18:00 | ICG2022-236
**Channel change during catastrophic flood: example of the Alex storm in the Vésubie valley**
Frédéric Liébault, Guillaume Piton, Gabriel Melun, Margot Chapuis, and Paul Passy

18:00–18:15 | ICG2022-350
*Sedimentation from extreme summer 2021 flooding along the Maas River, Netherlands: The role of flood duration (withdrawn)*
Paul Hudson

18:15–18:30 | ICG2022-260
**Magnitude and frequency of palaeofloods of the Duero River (Spain and Portugal) in the context of climate variability during the last 15 ka**
Gerardo Benito, Noam Greenbaum, Alicia Medialdea, Mikel Calle, Yolanda Sanchez-Moya, Maria Machado, and Juan Pablo Corella

18:30–18:45 | ICG2022-659
**Morphological and hydraulic response of the braided-wandering river to human intervention (the case study of the Belá River, Slovak Carpathians)**
Anna Kidová, Artur Radecki-Pawlik, Miloš Rusnák, and Karol Plesiński

18:45–19:00 | ICG2022-676
**Geomorphological evolution of the floodplain in mountain environment as a response to environmental changes (case study of the Belá River, Slovak Carpathians)**
Peter Labaš, Anna Kidová, Šárka Horáčková, Milan Lehotský, and Miloš Rusnák
Poster

**Attendance** Tue, 13 Sep, 10:30–10:45

**Display** Mon, 12 Sep, 09:00–Tue, 13 Sep, 19:00

**Chairpersons:** Frédéric Liébault, Vittoria Scorpio

P42 | ICG2022-579
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**Monitoring channel response and recovery of ephemeral Mediterranean streams using diachronic orthophotography analysis with machine learning** *(Rambla de Cervera, Spain)*


P43 | ICG2022-41
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**Grain-size, morphometry and sediment transport in an Antarctic stream located close to the Spanish Antarctic Base ‘Juan Carlos I’** *(Livingston Island, South Shetland Archipelago)*

*Rosana Menéndez-Duarte*, Daniel Vazquez-Tarrio, Jesus Ruiz-Fernandez, Jose Maria Fernández-Fernández, and Gabriel Goyanes

P44 | ICG2022-74
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**Estimating bedload in a poorly-gauged mountain river: Coto river** *(Cantabrian Mountains, NW Iberian Peninsula)*

*Daniel Vázquez-Tarrio*, Rosana Menéndez-Duarte, and Raquel Martínez Álvarez

P45 | ICG2022-109
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**Drainage rearrangements in a semi-arid area: a case study on the Brazilian northern passive margin**

Wesley Rodrigues and *André Salgado*

P46 | ICG2022-114
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**Morphological changes and development of a channel evolution model upstream a dam**

*Massimo Rinaldi*, Rafael Baena-Escudero, and Inmaculada Concepción Guerrero-Amador

P47 | ICG2022-115
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**Flood events as geomorphic thresholds for river channel change**

Dan Dumitriu

P48 | ICG2022-147
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**Long-term impacts of hydropower plants on the sedimentology and morphology of the Warche riverbed (Belgium)**

*Camille Fraudin*, Eva Mercier, François Petit, and Geoffrey Houbrechts

P49 | ICG2022-182
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**Frequency of Boulders Transport during Large Floods in Hyperarid Areas using Paleofoal Od Analysis – An Example from the Negev Desert, Israel**
Noam Greenbaum, Uri Schwartz, Paul Carling, Nati Bergman, Amit Mushkin, Rami Zituni, Gerardo Benito, Rafi Halevi, and Naomi Porat

P50|ICG2022-191
Exploring the role of sediment and wood transport during flash floods in the Darro River crossing the city of Granada (Spain)
Daniel Vazquez-Tarrio, Rosa M. Mateos-Ruiz, Virginia Ruiz-Villanueva, Sergio Iglesias-Asenjo, and Andres Diez-Herrero

P51|ICG2022-212
First ESR chronology of the Duero River terrace system in Northern Spain
Davinia Moreno and Alfonso Benito-Calvo

P52|ICG2022-343
Geomorphological monitoring of the clogging and unclogging of gravel-bed rivers substrate for the reintroduction of freshwater mussels (Margaritifera margaritifera and Unio crassus) in the Ardennes massif (Belgium)
Camille Imbert, Quintia Vaessen, Mila Tripon, and Geoffrey Houbrechts

P53|ICG2022-352
Change in mountainous river system due to human influence (on the example of Chorna Tisha, Ukrainian Carpathians)
Anastasilia Derii

P54|ICG2022-400
Microhabitats of a threatened freshwater mussel in gravel-bed rivers (Belgium).
Quintia Vaessen and Geoffrey Houbrechts

Poster

Attendance: Tue, 13 Sep, 16:30–16:45
Display: Mon, 12 Sep, 09:00–Tue, 13 Sep, 19:00|Poster area
Chairpersons: Frédéric Liébault, Vittoria Scorpio

P55|ICG2022-426
Contradictory effect of flood events and vegetation succession on the dynamics of gravel bars
Adriana Holušová and Tomáš Galia

P56|ICG2022-435
Reducing water related risks in the Lower Danube through Nature Based Solution implementation
Albert Scrieciu, Sabin Rotaru, Raffaele Giordano, and Alessandro Pagano

P57|ICG2022-465
Hydromorphological characterization, assessment and monitoring in ephemeral streams: a case study in NE Iberian Peninsula.
Alfredo Ollero, Askoa Ibisate, Daniel Ballarín, Jesús Horacio García, Marcos Gimeno, Álvaro Gómez-Gutiérrez, Marcos Martínez-Segura, Rubén Moral, Josu Ortiz, Yilena Hermoso, Sergio Sanmartín, and Marco David Vásconez

P58|ICG2022-486
Relationships between alluvial fans, channel steepness and drainage area in the Andean piedmont, Colombia.
Caio Breda, Fabiano Nascimento Pupim, Sebastian Gomez M., and Maurício Parra

P59|ICG2022-617
Annual dynamics of a river sandbar in the Lower Danube: geomorphic adjustments under anthropogenic pressures
Sabin Rotaru, Albert Scriciu, and Adrian Popa

P60|ICG2022-638
The watershed of the upstream course of Oued el Khil (South-East Tunisia) Geomorphological study
Kharchoufi Mohamed Houcine

P61|ICG2022-649
How human activity changes the drainage system in the small mountain catchments? (Carpathian Mountains, Poland)
Rafal Kroczak and Tomasz Bryndal

P62|ICG2022-656
Estimated volume of sedimentary deposits in river Araguaia, State of Goiás – Brazil, through Remotely Piloted Aircraft System (RPAS)
Pâmela Assis, Maximiliano Bayer, and Ana Amaral

P63|ICG2022-675
Late Quaternary Evolution of an Iconic Braided Stream: Dating the Alluvial Fill of the Platte River, Nebraska, USA
Paul R. Hanson, Clayton Reinier, Robert Joeckel, Jacob Bruihler, and Aaron Young

P64|ICG2022-734
An approach to evaluate the dominant river biogeomorphic succession phase at the reach-scale
Meiqin Han, Gary Brierley, Baotian Pan, Haopeng Geng, and Yan Shi

P65|ICG2022-735
Palaeomorphology and environmental evolution of the Sado incised valley, SW Portugal
Ana Maria Costaa, Maria da Conceição Freitas, Rogério Mota, Manel Leira, and Pablo Arias

P66|ICG2022-50
Late Pleistocene History of the River Valleys of the East European Plain’s center
Ekaterina Matlakhova and Andrei Panin
ICG2022-11  **Aeolian Geomorphology**  
Conveners: Vanda de Claudino-Sales, António Campar, Ana Ramos-Pereira, Amadou Abou Sy, Jorge Trindade, Abdessamad CHARIF

Orals  
Fri, 16 Sep, 09:00–10:30, 14:30–16:30 | Room Sala Almedina-C2D

Poster  
Attendance Fri, 16 Sep, 10:30–10:45  
Display Thu, 15 Sep, 09:00–Fri, 16 Sep, 19:00 | Poster area

Orals  
Fri, 16 Sep, 09:00–10:30, 14:30–16:30 | Room Sala Almedina-C2D  
**Chairpersons:** António Campar, Ana Ramos-Pereira, Jorge Trindade

09:00–09:15 | ICG2022-672  
**The Grain of the Plains Remains: Widespread Northwest-Southeast Ridgelines and Associated Oriented Landforms, Northern Interior Plains, USA**  
**Robert Matthew Joeckel**, Paul Hanson, and Jesse Korus

09:15–09:30 | ICG2022-538  
**The Sandy Hills Of Belvedere – San Marco of Aquileia: The Largest System of LGM Continental Dunes In Northern Italy**  
**Federica Vanzani**, Alessandro Fontana, Livio Ronchi, Jacopo Boaga, and Irka Hajdas

09:30–09:45 | ICG2022-448  
**The development of the periglacial dune fields within the central part of the European Sand Belt – insights from the pattern analysis**  
**Michał Łopuch**, Zdzisław Jary, Robert Sokołowski, Piotr Moska, Paweł Zieleński, Jacek Skurzyński, Marcin Krawczyk, Jerzy Raczyk, Przemysław Mroczek, Grzegorz Poręba, Agnieszka Szymak, and Konrad Tudyka

09:45–10:00 | ICG2022-279  
**Age and source of coastal loess in the Shandong Peninsula, Bohai Sea, China**  
**Xiaodong Miao**, Chongyi Ee, Shujian Xu, Qiansuo Wang, Paul Hanson, Haitao Chen, and Yunkun Shi

10:00–10:15 | ICG2022-533  
**On the impact of Saharan dust addition to sedimentary units**  
**György Varga**, János Kovács, Fruzsina Gresina, and Zoltán Szalai

10:15–10:30 | ICG2022-301  
**Linking aeolian geomorphology with climate for the Karakum and Kyzylkum Deserts**  
**Marijana Z. Petrovic**, Dan G. Blumberg, Leah Orlovsky, and Shimrit Maman

Coffee break and poster session
Chairpersons: António Campar, Abdessamad CHARIF, Jorge Trindade

14:30–14:45 | ICG2022-21
Eolian chronology reveals causal links between tectonics, climate, and erg generation
Shlomy Vainer, Ari Matmon, Yoav Ben Dor, Eric Verrecchia, Frank Eckardt, and Aster Team

14:45–15:00 | ICG2022-490
Allometric ratios for barchans on Earth and Mars
Douglas Sherman, Pei Zhang, Jinsu Bae, and Robert Butler

15:00–15:15 | ICG2022-512
Aeolian mass flux profiles above different sands surfaces versus sand surface with pebble coverages of different density
Joanna Rotnicka and Maciej Dłużewski

15:15–15:30 | ICG2022-380
Geomorphological patterns observed in foredunes under storm and fair-weather conditions revealed by UAV images
Guilherme Borges Fernandez, Ivandro Patrick de Oliveira Coutinho, and Thiago Goçalves Pereira

15:30–15:45 | ICG2022-567
Aeolian ramp morphodynamics during storm events
Joanna Oliwia Tomczak, Maciej Dłużewski, and Joanna Rotnicka-Dłużewska

15:45–16:00 | ICG2022-34
Crop diversification to reduce wind erosion hazard in a semiarid blown-sand area of Hungary
Dénes Lóczy, József Dezső, Marietta Puhl-Rezsek, and Ferenc Tarjányi

16:00–16:15 | ICG2022-674
Stabilized eolian landforms of the largest quaternary inland eolian system in Brazil
Patricia Mescolotti, Paulo César Giannini, Fabiano Pupim, and Mario Luis Assine

16:15–16:30 | ICG2022-371
Wind tunnel experiments on the formation of mega-ripples according to the amount of coarse particles
Yoshinori Kodama
Poster

**Display time:** Thu, 15 Sep 09:00–Fri, 16 Sep 19:00  
**Attendance** Fri, 16 Sep, 10:30–10:45 Poster area  
**Chairpersons:** Ana Ramos-Pereira, António Campar, Jorge Trindade

P49 | ICG2022-58  
**HIPSTER:** A High-resolution Integrated Program for modeling Sand Transport in Eolian Realms by coupling OSL and cosmogenic nuclides (Cosmolian)  
Yoav Ben Dor and Shlomy Vainer

P50 | ICG2022-99  
**Chronology of fossil climbing dunes on the Galician cliff coast (NW Spain) formed during MIS8, MIS6, MIS4 and MIS2 regressive episodes. Past and present of the coastal aeolian record**  
Carlos Arce-Chamorro, Juan Ramón Vidal-Román, and Jorge Sanjurjo-Sánchez

P51 | ICG2022-104  
**Allostratigraphic analysis of linear dunes without visible erosional boundaries using cluster analysis of portable OSL signals**  
Lotem Robins, Joel Roskin, LuPeng Yu, and Noam Greenbaum

P52 | ICG2022-450  
**The COOL-DUNES project: Factors controlling spatial patterns of periglacial dune fields in the central part of the European Sand Belt**  
Michał Łopuch, Zdzisław Jary, and Sebastian Lindhorst

P53 | ICG2022-503  
**Quaternary aeolian surface formations in the brazilian Pampa**  
Tania Cristina Gomes and Roberto Verdu

P54 | ICG2022-715  
**Aeolian accumulations in Tombua region (SW Angola). Structural control on sand composition and dune morphology**  
João Barros, Pedro Dinis, and Pedro Callapez

P55 | ICG2022-739  
**Spatial and temporal provenance variations of the Chinese Loess Plateau over the late Miocene to early Pleistocene: a window into the reorganization of the Yellow River and monsoon activity**  
Junsheng Nie, Baotian Pan, Wenbin Peng, Haobo Zhang, and Alex Pullen
ICG2022-12  **Marine and coastal geomorphology**  
Conveners: Aaron Micallef, Stefano Furlani, Alveirinho Dias, C. Andrade, Carlos Loureiro, Angela Rizzo

Orals  
Thu, 15 Sep, 09:00–16:15, 17:00–19:00|Room Sala Aeminium-C1A (a), Fri, 16 Sep, 09:00–10:30, 14:30–16:30|Room Sala Aeminium-C1A (a)

Poster  
Attendance Fri, 16 Sep, 10:30–11:00 | Display Thu, 15 Sep, 09:00–Fri, 16 Sep, 19:00|Poster area

Orals:  
Thu, 15 Sep | Room Sala Aeminium-C1A (a)  
**Chairpersons**: Stefano Furlani, Angela Rizzo  
COASTAL AND MARINE ENVIRONMENTS - Block I Rocky and mixed coasts

09:00–09:15|ICG2022-254  
**Overwashing and rapid retreat of the gravel spit barrier assessment based on the Orford and Carter (1982) storm impact scale model**  
Serge Suanez, Pierre Stéphan, France Floch, and Julien Houron

09:15–09:30|ICG2022-359  
**Pluri-annual morphological and sedimentological changes of the Valahnúkur boulder barrier, SW Iceland**  
Pierre Stephan, Lancelot Massé, David Dider, Ronan Autret, Antoine Soloy, and Serge Suanez

09:30–09:45|ICG2022-379  
**Geological controls on shoreface morphodynamic state and implications for coastal barrier evolution**  
Carlos Loureiro, Andrew Green, and Andrew Cooper

09:45–10:00|ICG2022-462  
**Extreme Wave Boulders at Premantura: the stamp of the storms in the northern Adriatic Sea**  
Valeria Vaccher, Stefano Devoto, Matteo Mantovani, Tvrtko Korbar, Vanja Macovaz, and Stefano Furlani

10:00–10:15 Discussion

Coffee break and poster session
Chairpersons: Aaron Micallef, C. Andrade
COASTAL AND MARINE ENVIRONMENTS - Block II Shelf and nearshore

11:00–11:15 | ICG2022-65
Geomorphology of the continental shelf west of Ireland
Stephen McCarron, Daniel Praeg, Xavier Monteys, Kieran Craven, and Benjamin Thébaudeau

11:15–11:30 | ICG2022-189
Submerged karst landscape of the Prokljan Lake (Krka River estuary in the central Dalmatia)
Natalia Šenolt, Ozren Hasan, Slobodan Miko, Dea Brunović, and Nikolina Ilijanić

11:30–11:45 | ICG2022-375
Rip currents on the Romanian Black Sea coast – distribution, characteristics and dynamics
Florin Tatui, Florin Zainescu, Florin Miron, Alfred Vespremeanu-Stroe, and Razvan Mateescu

11:45–12:00 | ICG2022-705
A Baseline Assessment Of Seafloor Geomorphology And Benthic Habitat Distribution Along The Neom Coast (Northern Saudi Arabia, Red Sea)
Fabio Marchese, Sam Purkis, Giovanni Chimienti, Mostapha Ouhssain, Hannah Shernisky, Tullia Terraneo, Colleen Peters, Matthie Rodrigue, Burton Jones, Ameer Eweida, and Francesca Benzoni

12:00–12:15 ~Discussion

Lunch break

Chairpersons: Angela Rizzo, Stefano Furlani
COASTAL AND MARINE ENVIRONMENTS - Block III Estuaries and deltas

14:30–14:45 | ICG2022-111
Contribution of fluvial and marine sediment to the Senegal estuary (West Africa): a geochemical evaluation
Awa Bousso Dramé, Helene Burningham, and Moussa Sall

14:45–15:00 | ICG2022-345
Anthropogenic effect on the formation of Hiroshima Delta -Focusing on historical iron-sand mining in the upper reaches
Sumiko Kubo, Noboru Sadakata, Yasuhiro Kumahara, Yoshiya Iwasa, and Akiko Matsumoto
15:00–15:15 | ICG2022-381
Holocene asymmetrical evolution in wave-influenced deltas: insights from OSL, shallow geophysics and geomorphology
Guilherme Borges Fernandez, Thais Baptista da Rocha, Sergio Cadena Vasconcelos, and Thiago Goçalves Pereira

15:15–15:30 | ICG2022-584
Evolution of the Bhasan Char Island (Meghna Estuary, Bangladesh) and its Suitability for Refugee Resettlement
Abhijit Das and Sunando Bandyopadhyay

15:30–15:45 | ICG2022-663
On the evolutionary patterns of the large river deltas. Examples from Danube delta and other deltaic systems
Alfred Vespremeanu-Stroe, Alexandru Berbecariu, Florin Zăinescu, Florin Tătui, Luminița Preoteasa, and Edward Anthony

15:45–16:00 | ICG2022-713
Holocene Evolution and Distribution of Large Structural Estuaries
Mitchell Baum, David Kennedy, and Sarah McSweeney

16:00–16:15 Discussion

Coffee break and poster session

Chairpersons: Aaron Micallef, C. Andrade
COASTAL AND MARINE PROCESSES - Block I Sea level changes and vertical land movements

17:00–17:15 | ICG2022-176
Sea-level rise and land subsidence of low-lying coasts: the study case of Tavoliere delle Puglie (Southern Italy)
Paolo Petio, Giovanni Scardino, Enrico Serpelloni, Alberto Refice, Vincenzo De Santis, Angela Rizzo, Marina Zingaro, Domenico Capolongo, Marco Anzidei, and Giovanni Scicchitano

17:15–17:30 | ICG2022-245
First relative sea-level index points obtained from phreatic overgrowths on speleothems (POS) in the Kvarner area, Croatia
Nna Lončar, Blaž Miklavič, Sanja Faivre, Bogdan Onac, Petra Kovač Konrad, and Victor Polyak

17:30–17:45 | ICG2022-272
Late quaternary evolution of the continental shelf offshore Marzamemi (southern Sicily, Ionian Sea) and implications on the distribution of associated mesophotic bioconstructions
Andrea Giulia Varzi, Luca Fallati, Alessandra Savini, Valentina Alice Bracchi, Pietro Bazzicalupo, Antonietta Rosso, Rossana Sanfilippo, Marco Bertolino, Maurizio Muzzupappa, and Daniela Basso
17:45–18:00 ICG2022-358
**Marine terrace staircases of western Iberia: uplift rate patterns from rocky limestone coasts of central Portugal (Cape Espichel and Raso)**
António Antunes Martins, **Margarida Porto Gouveia**, Pedro Proença Cunha, Alberto Gomes, Christophe Falguères, Pierre Voinchet, Martin Stokes, Bento Caldeira, João Cabral, Jan-Pieter Buylaert, Andrew S. Murray, Jean-Jacques Bahain, Silvério Figueiredo, and Pu Yang

18:00–18:15 ICG2022-467
**Late Quaternary sea-level variations and geomorphic coastal responses in southern Italy: the Punta Licosa case study (Campania region)**
Maria Francesca Tursi, Gaia Mattei, Claudia Caporizzo, Silvio Del Pizzo, Antonio Minervino Amodio, Carmen M. Rosskopf, and Pietro P. C. Aucelli

18:15–18:30 ICG2022-679
**Cosmogenic Surface Exposure (10Be) Dating of Raised Beach Ridges in Marguerite Bay, Antarctic Peninsula: Implications for Relative Sea Level Curve**
Cengiz Yildirim, Attila Ciner, Mehmet Akif Sarikaya, Adil Enis Aslan, Hakan Yavasoglu, and Alan Joseph Hidy

18:30–18:45 ICG2022-253
**Plio-Quaternary coastal uplift along the western Iberian margin: insights from dated marine terraces (Peniche, central Portugal)**
Margarida Gouveia, **Pedro Cunha**, António Martins, Christophe Falguères, Pierre Voinchet, Alberto Gomes, Jean-Jacques Bahain, Martin Stokes, Telmo Pereira, Silvério Figueiredo, Qingfeng Shao, Olivier Tombret, and Pu Yang

18:45–19:00 Discussion

**Orals:**

Fri, 16 Sep | Room Sala Aeminium-C1A (a)
**Chairpersons:** Carlos Loureiro, C. Andrade
COASTAL AND MARINE ENVIRONMENTS – Block IV Beaches and barriers

09:00–09:15 ICG2022-86
**Looking for a storm in the beach-ridges: a microscale perspective from eastern Baltic**
Edyta Kalinska and Piotr Weckwerth

09:15–09:30 ICG2022-210
**Seasonal evolution on reef fringed pocket beaches in a context of relative sea level rise.**
Sarah Charroux, Matthieu Jeanson, Sophie Morisseau, Yann Mercky, and Gwenaelle Pennober
ASSESSING THE USE OF SENTINEL-2 FOR EVALUATION OF ARCTIC COASTAL EROSION: Potential and Limitations (Beaufort Sea Coast, Canada)
Sofia Bilbao, Gonçalo Vieira, Annett Bartsch, and Aleksandra Efimova

Grazia Azzara, Giorgio Manno, Chiara Martinello, Mirko Basile, Claudio Mercurio, Carlo Lo Re, Giuseppe Ciraolo, and Edoardo Rotigliano

Evolution of pocket beaches on the island of Hvar during the last 200 years (Croatia, Eastern Adriatic Coast)
Marin Mićunović and Sanja Faivre

Coffee break and poster session

Chairperson: Carlos Loureiro
COASTAL AND MARINE PROCESSES - Block II Observation, reconstruction, and modelling

A journey through the Roman coastal landscape of Campi Flegrei and its surroundings: new insights from geomorphological, stratigraphic, geophysics, and geoarchaeological surveys
Claudia Caporizzo, Gaia Mattei, Lucio Amato, Aldo Cinque, Gerardo Pappone, Alessia Sorrentino, Paolo Stocchi, Salvatore Troisi, and Pietro Patrizio Ciro Aucelli

Spatial scaling in geomorphology: Extrapolating micro-erosion measurements to the landform scale on shore platforms using unoccupied aerial vehicles
Runjie Yuan, David Kennedy, and Daniel Ierodiaconou

Capturing the Role of Soil Moisture in Driving Soft Cliff Erosion Through Terrestrial Laser Scan (TLS) Return Intensity Data
Serena L Teasdale, Christopher R Hackney, David J Milan, Georgina L Bennett, and Daniel R Parsons

Quantifying long-term coastal erosion: from topographic reconstruction of volcanic islands to cosmogenic isotopes
Rémi Bossis, Vincent Regard, Sébastien Carretier, Etienne Large, Pierre-Henri Blard, and Julien Charreau
15:30–15:45 | ICG2022-434
Geomorphology and tsunamigenesis of blocky MTDs on collisional tectonic settings: Insights from Southwest Iberia and the Hikurangi Margin (New Zealand)
Davide Gamboa, Rachid Omira, Pedro Terrinha, Phil Barnes, and Sam Davidson

15:45–16:00 | ICG2022-25
A combined approach between Convolutional Neural Network and optical flow for the assessment of wave and tide parameters on the Mediterranean and Atlantic coasts
Giovanni Scardino, Giovanni Scicchitano, Marco Chirivi, Pedro Costa, Antonio Luparelli, Gianfranco Mazza, Arcangelo Piscitelli, and Giuseppe Mastronuzzi

16:00–16:15 | ICG2022-441
MaxEnt modelling as a tool to inform discovery of deep-sea coral ecosystems
Megan K. B. Nolan, Fabio Marchese, Malika Kheireddine, Giovanni Chimienti, Sam Purkis, Tullia Isotta Terraneo, Mattie Rodrigue, Ameer A. Eweida, Burton Jones, and Francesca Benzoni

16:15–16:30 Discussion

Poster

Attendance: Fri, 16 Sep, 10:30–11:00 | Poster area
Display time: Thu, 15 Sep 09:00–Fri, 16 Sep 19:00 | Poster area
Chairpersons: Carlos Loureiro, Stefano Furlani, Angela Rizzo

P56 | ICG2022-666
Marine oscillatory movements during the Late Holocene in the lower course of the Piranhas-Açu River, Rio Grande do Norte – Brazil
Pedro Ítalo Carvalho Aderaldo and Archimedes Perez Filho

P57 | ICG2022-328
Coastal paleogeography of the western periphery of Campi Flegrei volcanic area during the Late-Republican age
Alessia Sorrentino, Pietro Patrizio Ciro Aucelli, Claudia Caporizzo, Gaia Mattei, Gerardo Pappone, Paolo Stocchi, Emanuele Tedesco, and Salvatore Troisi

P58 | ICG2022-647
Seasonal morphodynamics of multi-bar on macrotidal beach, west coast of Korea
Tae Soo Chang, Hyun Ho Youn, and Seung Soo Chun

P59 | ICG2022-603
Doce River mouth dynamics and morphological changes over recent years
Silvia Polizei and Helene Burningham

P60 | ICG2022-544
The origin of flat surfaces at Ustica island (Sicily, Italy): a multifaceted phenomenon
Stefano Furlani, Fabrizio Antonioli, Stefano Devoto, and Franco Foresta Martin
P61 | ICG2022-2

Submarine geomorphology of abrasion platforms off basalt sea cliff: based on multibeam bathymetry and SCUBA diving observations

Hironobu Kan, Hayate Kimura, Wataru Sano, and Masami Sannoh

P62 | ICG2022-711

Geological control and processes in tropical coastal cliffs: Insights from Morro Branco, northeastern Brazil

Ana Beatriz da Barbosa, Rubson Pinheiro Maia, Anna Sabrina Vidal de Souza, and Eliomara Leite Meira Gomes

P63 | ICG2022-275

Mapping expected sea-level inundation in the north-eastern coastal sector of the Island of Gozo (Malta, Mediterranean Sea)

Angela Rizzo, Anton S. Micaleff, Nabanita Sarkar, Vittoria Vandelli, and Mauro Soldati

P64 | ICG2022-277

Mapping the anthropogenic impact in the Taranto coastal area (southern Italy) through a multidisciplinary methodological approach

Angela Rizzo, Francesco Francesco De Giosa, Antonella Di Leo, Carlo Donadio, Stefania Lisco, Giuseppe Mastronuzzi, Massimo Moretti, Giovanni Scardino, Giovanni Scicchitano, and Sabrina Terracciano

P65 | ICG2022-528

Semi-automated methods for analysing the parameters that controlling shore platform evolution: the example of Glamorgan, South Wales

Alejandro Gomez-Pazo, Larissa Naylor, and Martin D. Hurst

P66 | ICG2022-545

Earth Observation for Permafrost dominated Arctic Coasts – consistent coastal erosion mapping as relevant for permafrost carbon and coastal communities

Annett Bartsch, Anna Irrgang, Julia Boike, Julia Martin, Guido Grosse, Hugues Lantuit, Ingmar Nitze, Gonçalo Vieira, Benjamin M. Jones, Barbara Widhalm, Clemens V. Baeckmann, and Rodrigue Tanguy

P67 | ICG2022-518

Monitoring of coastal erosion using remote images: comparison between physically and remotely acquired data on a limestone coast

Joanna Causon Deguara, Ritienne Gauci, and Rob Inkpen

P68 | ICG2022-504

Changing Pattern of Coastline and its Impact on Land Use and Land Cover (LULC) in the Lower Meghna River Region of Bangladesh

Md Sariful Islam and Thomas W. Crawford
Identification and mapping of beach ridges in the Acheron River delta (Western Greece)
Diamantina Griva, Efthimios Karymbalis, Maurizio Poscolieri, Isaak Parcharidis, Vasilios Kapsimalis, Konstantinos Tsanakas, and Dimitrios-Vasileios Batzakis

A sudden beaches formation on the coastal lava-deltas of the 2021 volcanic eruption on La Palma (withdrawn)
Nicolás Ferrer, Leví García Romero, Abel San Romualdo Collado, Juana Vegas, Javier Dóniz Páez, and José Mangas Viñuela

Hurricane Storm Surge Sedimentation on McFaddin National Wildlife Refuge, Texas: Spatial Variations in Sediment Distribution in the Right-Front Quadrant of Hurricane Ike
Joshua Hodge

Coastline vulnerability of the Congo Republic in the face of coastal erosion: case studies of the Pointe-Noire and Loango bays
Léonard Sitou

The role of coastal defense structures and decreased fluvial sediment inputs in coastal erosion dynamics
Gianluigi Di Paola, Mariano Buccino, Margherita C. Ciccoaglione, Vittoria Scorpio, and Carmen M. Rosskopf
ICG2022-13  **Volcanic Geomorphology**  
Conveners: Karoly Nemeth, Ghislain Zangmo Tefogoum, Hugo Corbella, Fernando Costa, Sonia V. Silva

**Orals**  
Thu, 15 Sep, 09:00–10:30 | Room Sala Inês de Castro-C1E

**Poster**  
Attendance Thu, 15 Sep, 10:30–10:45 | Display Thu, 15 Sep, 09:00–Fri, 16 Sep, 19:00 | Poster area

**Orals**  
Thu, 15 Sep | Room Sala Inês de Castro-C1E  
**Chairpersons:** Ghislain Zangmo Tefogoum, Fernando Costa

09:00–09:15 | ICG2022-37  
**A 22,000-year tephrostratigraphy record of unidentified volcanic eruptions from Ternate and Tidore islands (North Maluku, Indonesia)**  
**Audrey Faral, Franck Lavigne, Bachtiar Mutaqin, Fatima Mokadem, Rahim Achmad, Rohima Wahyu Ningrum, Pierre Lahitte, Danang Sri Hadmoko, and Estuning Tyas Wulan Mei**

09:15–09:30 | ICG2022-64  
**Volcanic geomorphosites assessment in North Lisbon region**  
**Fernando Costa, Antônio Alves Silva, and Madalena Fonseco**

09:30–09:45 | ICG2022-201  
**Drones and geomorphology in high schools: How to recruit the next generation of geomorphologists**  
**James Driscoll and Mike Hall**

09:45–10:00 | ICG2022-611  
**Dismantling a volcanic edifice by deep-seated landslides: the case of the eastern Monte Amiata (Italy).**  
**Enrico D’Addario, Taraka Venkatadripathi Pattela, Lorenzo Marzini, Gianni Lombardi, Michele Amaddii, and Leonardo Disperati**

10:00–10:15 | ICG2022-660  
**Investigation on the Manengouba Volcano’s geomorphosites (Cameroon): case of holo-magmatic and hydro-holomagmatic cones**  
**Ghislain Zangmo Tefogoum, Armand Kagou Dongmo, David Guimolare Nkouathio, and Merlin Gountié Dedzo**
10:15–10:30 | ICG2022-692
Complex lava flow evolution reveals prolonged fissure-fed eruption scenario for the youngest (~2000 BP) eruptive event of the Arxhan-Chaihe Volcanic Field, Inner Mongolia in NE China
Karoly Nemeth and Bo-xin Li

Poster

Display time: Thu, 15 Sep 09:00–Fri, 16 Sep 19:00
Attendance: Thu, 15 Sep, 10:30–10:45 | Poster area
Chairpersons: Fernando Costa, Ghislain Zangmo Tefogoum

P74 | ICG2022-456
The impact of strong precipitation and lithologic gradients on the evolution of post-eruption volcanic surfaces
Daniel O'Hara, Liran Goren, Benjamin Campforts, and Matthieu Kervyn
ICG2022-14  **Karst Geomorphology**  
Conveners: Mateja Ferk, Alexander Klimchouk, Jean Noel Salomon, Luca Dimuccio, Maria Luisa Rodrigues, Luiz Eduardo Panisset Travassos

Orals  
Thu, 15 Sep, 09:00–16:30 | Room Sala Aeminium-C1A (b)

Poster  
Attendance Thu, 15 Sep, 16:45–17:00  
Display Thu, 15 Sep, 09:00–Fri, 16 Sep, 19:00 | Poster area

Orals  
Thu, 15 Sep | Room Sala Aeminium-C1A (b)  
**Chairpersons:** Mateja Ferk, Luca Dimuccio, Maria Luisa Rodrigues

Surface-subsurface connectivity in karst

09:00–09:15 | ICG2022-213  
The Inception Horizon Hypothesis applied to karst development in the Burren: linking subsurface to surface  
(invited)  
**Robert A. Watson,** Simone Fiaschi, and Eoghan P. Holohan

09:15–09:30 | ICG2022-701  
Linking regional Quaternary surface evolution to the palaeoflood events recorded by cave sediments in central Portugal  
**Luca Dimuccio,** Lúcio Cunha, Vincenzo Iurilli, Régis Braucher, and Didier L. Bourlés

09:30–09:45 | ICG2022-671  
3D characterisation of doline-cave coupling zone by using 3D laser scanning and electrical resistivity tomography  
**Mateja Breg Valjavec,** Rok Ciglič, Jure Tičar, Špela Čonč, and Stanka Šebela

09:45–10:00 | ICG2022-162  
Denuded caves on the Nullarbor Plain, Australia  
**Mateja Ferk** and Matej Lipar

10:00–10:15 | ICG2022-612  
Going deeper underground: multi-level cave systems dated by 26Al/10Be cosmogenic burial as valuable geomorphological markers of long-term landscape evolution  
**Gilles Rixhon**

10:15–10:30 | ICG2022-423  
Hydrosedimentological study of a covered fluviokarst in the Brazilian Cerrado  
**Rogerio Uagoda,** Yawar Hussain, Dandara Caldeira, Adivane Moraes Nogueira, Maria Rita Fonseca, and André da Silva Tavares

Coffee break and poster session
**Chairpersons**: Mateja Ferk, Luca Dimuccio, Maria Luisa Rodrigues

**Application of novel methods in karst geomorphology**

11:00–11:15 | ICG2022-85
**Multi-approach monitoring of a high-risk sinkhole in the Ebro Valley, Spain using high-precision leveling, terrestrial laser scanner, photogrammetry, and BOTDA distributed optical fiber sensing** (invited)
**Francisco Gutiérrez**, Jorge Sevil, Pascual Sevillano, Mario Zarroca, Carles Roqué, Xavier Comas, Gloria Desir, Jesús Guerrero, Ángel García-Arnay, Javier Preciado-Garbayo, Juan José Martínez, and Alfonso Benito-Calvo

11:15–11:30 | ICG2022-424
**Continuity among three-consecutive Brazilian caves established by a geophysical approach**
Amanda Cecília Neuhauss Aguiar, Yawar Hussain, Welitom Rodrigues Borges, and Rogerio Uagoda

11:30–11:45 | ICG2022-372
**Understanding karst massif physical characteristics from the analysis of springs natural responses: a combined methodological approach**
**Isabel Paiva**, Lúcio Cunha, Sara Sofio, and Ana Ribeiro

11:45–12:00 | ICG2022-642
**Inferring the regional karstification degree from a multi-method approach in Pains region, MG, Brazil**
Pedro Assunção, **Isabel Paiva**, Paulo Galvão, Tássia Marques, Camila Schuch, and Peter Fleming Marshall

12:00–12:15 | ICG2022-230
**Coastal subsidence based on speleothem ages: preliminary evidence from Granada coast (Spain)**
**Daniel Ballesteros**, Carlos Pérez-Mejías, Marcos Moreno-Sánchez, Cristina Reyes-Carmona, José Miguel Azañón, Guillermo Booth-Rea, Vicente Pérez-Peña, Diego Moreno, Antonio González-Ramón, Hai Cheng, Jorge Pedro Galve, and Patricia Ruano

12:15–12:30 | ICG2022-60
**Dolines as microhabitat relief feature and their importance for Eurasian lynx (Lynx lynx) ecology**
**Špela Čonč**, Teresa Oliveira, Mateja Breg Valjavec, and Miha Krofel

Lunch break
Chairpersons: Mateja Ferk, Luca Dimuccio, Maria Luisa Rodrigues
Distinguishing features and processes in karst landscapes

14:30–14:45 | ICG2022-71
The singularity of hypogene karst geomorphology (invited)
Alexander Klimchouk

14:45–15:00 | ICG2022-44
Quaternary Coastal Dune Limestone Karst
Matej Lipar, Susan Q. White, and Mateja Ferk

15:00–15:15 | ICG2022-225
Origin and evolution of poljes in the Sivas gypsum karst, Turkey
Ergin Gökkaya and Francisco Gutiérrez

15:15–15:30 | ICG2022-708
Possible origin and evolution of the crescent-shaped karst in Baling, Kedah, West Malaysia
Ros Fatihah Muhammad, Muhammad Akif Akwa Zaidi, Muhammad Fahmi Mat Daud, Muhammad Afiq Hafifi Ngasri, and Ng Tham Fatt

15:30–15:45 | ICG2022-82
Morphometry, distribution, and evolution of sinkholes on the western shore of the Dead Sea
Jorge Sevil and Francisco Gutiérrez

15:45–16:00 | ICG2022-698
Subglacial carbonate deposits - a new source for studying the presence of glaciers in a glaciokarstic environment
Matija Zorn, Matej Lipar, Mateja Ferk, Klemen Cof, and Janko Čretnik

16:00–16:15 | ICG2022-267
Nature Conservation and Construction Projects in the Kras Region (Slovenia)
Martina Stupar, Anica Cernatič Gregorič, and Astrid Ličen

16:15–16:30 | ICG2022-351
Plio-Quaternary morphotectonic evolution recorded in the clastic cave sediments of Sicó massif (central Portugal)
Luca Dimuccio, Lúcio Cunha, Régis Braucher, and Didier L. Bourlés
**Poster**

**Display time:** Thu, 15 Sep 09:00–Fri, 16 Sep 19:00  
**Attendance:** Thu, 15 Sep, 16:45–17:00 | Poster area  
**Chairpersons:** Mateja Ferk, Luca Dimuccio, Maria Luisa Rodrigues

P75 | ICG2022-12  
Planning and Karstological Monitoring of Construction of the Railway Line Crossing Classical Karst (Slovenia)  
Martin Knez, Mitja Prelovšek, and Tadej Slabe

P76 | ICG2022-32  
Karst relief of Mali me Gropa Massif, Central Albania: specifics and spatial differentiation  
Viacheslav Andreychouk, Romeo Eftimi, Jerzy Nita, and Alexander Klimchouk

P77 | ICG2022-130  
Analysis of karst geodiversity in the Garraf massif (Catalonia).  
Fus Micheo, Jordi Piña, Marc Vicens, Pedro Robledo, Rosa Carles, Eulàlia Pi, Joan Picart, and Jordi Cirés

P78 | ICG2022-184  
Speleological characterisation of the Aspargo Cave, Pains, Minas Gerais, Brazil  
Juliana Barbosa Timo, Mariana Barbosa Timo, and Luiz Eduardo Panisset Travassos

P79 | ICG2022-401  
Searching for pre-collapse precursory deformation in an active sinkhole of the Ebro valley evaporite karst, Spain. High-precision leveling and terrestrial laser scanner  
Gloria Desir, Jorge Sevil, Francisco Gutiérrez, Alfonso Benito-Calvo, Jesús Guerrero, and Ángel García-Arnay

P80 | ICG2022-729  
The contribution of Neoproterozoic stromatolite buildups for the carbonate framework and karstic morphology of the Humpata plateau (SW Angola)  
Agostinho Kalukembe, Luís Vitor Duarte, Pedro Callapez, and Pedro Dinis

P81 | ICG2022-736  
Formation of Karrenatische in a coastal tropical environment and their use for denudation rate estimates  
Blaž Miklavič, John E. Mylroie, John W. Jenson, Jay L. Banner, and Nataša Zabukovec-Logar
ICG2022-15  Weathering, Soils and Landforms
Conveners: Selma Castro, Silvio Rodrigues, Chiaki Oguchi

Orals
Tue, 13 Sep, 14:30–16:30, 17:00–19:00|Room Sala Sofia-C2B

Poster
Attendance Tue, 13 Sep, 16:45–17:00
Display Mon, 12 Sep, 09:00–Tue, 13 Sep, 19:00|Poster area

Orals:
Tue, 13 Sep | Room Sala Sofia-C2B
Chairpersons: Silvio Rodrigues, Chiaki Oguchi

14:30–14:45|ICG2022-27
Origins of rock columns and corestones of granitoids and their contributions to landslides
Masahiro Chigira, Yasuto Hirata, and Hironori Katou

14:45–15:00|ICG2022-246
Weathering processes and soil evolution under trees
Lukasz Pawlik, Piotr Gruba, Dawid Kupka, Pavel Samonil, and Brian Buma

15:00–15:15|ICG2022-706
Bauxitization scaffolded by quartzites
Daniela S. de Campos, Hevelyn S. Monteiro, Paulo M. Vasconcelos, Kenneth A. Farley, and Pablo Vidal-Torrado

15:15–15:30|ICG2022-521
A paleosol-based proxy: pedogenic goethite pisoliths
János Kovács, Gábor Újvári, and György Varga

15:30–15:45|ICG2022-286
Environmental significance of (paleo)soils surveyed throughout 20 years of research in the Mt. Cusna area (Northern Apennines)
Anna Masseroli, Guido S. Mariani, and Luca Trombino

15:45–16:00|ICG2022-169
Long-term effects of wildfire on rock weathering and soil stoniness in the Mediterranean landscapes
Nurit Shtober-Zisu and Lea Wittenberg

16:00–16:15|ICG2022-427
Climatic Influence of chemical weathering on the particle size distribution of the slope soil layers in granitic bedrock areas
Chiaki Oguchi, Konomi Nakamura, and Tsuyoshi Wakatsuki
Soil-geomorphology characterization in urban tropical contexts
Adolfo Quesada-Román, Manuel Camacho, and Leonardo Quesada-Román

Coffee break and poster session
Chairpersons: Silvio Rodrigues, selma Castro

Contrasting soil dynamics in the Serra da Estrela mountain plateau – Portugal (withdrawn)
Gerald Raab, Wasja Dollenmeier, Dmitry Tikhomirov, Gonçalo Vieira, Piotr Migoń, Michael E. Ketterer, Marcus Christl, Jamey Stutz, and Markus Egli

Assessment of soil geomorphological character and its impact on land use of the hills of Purulia and Bankura districts of West Bengal, India
Arindam Sarkar

Proglacial Soil Formation in the Anthropocene: soil chronosequences in the Sub tropical Andes and Alps
Anais Zimmer and Timothy Beach

Soil evolution on Coastal Tablelands in northeastern Bahia, Brazil
Grace Alves, Matheus Figueiredo, Ilo Andrade, João Henrique Sousa, and Alisson Diniz

Chemical Weathering Indices for Fire-Impacted Soils
Gregory Pope and Jennifer Callanan

Assessing the Impacts of Lithology on Short-term Gully Evolution using the Very-high Resolution UAV Photogrammetry
Fran Domazetović, Ante Šiljeg, Ivan Marić, Neven Cukrov, and Lovre Pandža

Assessment of gully erosion along major armoured roads in Mpumalanga, South Africa
Marissa Swart

Laboratory simulations of weathering of Zn-Pb-bearing rocks: leachability of metal(loid)s and dissolution of minerals – the case of the Olkusz area, South Poland
Maciej Swed, Anna Potysz, Agata Duczmal-Czernikiewicz, Marcin Siepak, and Wojciech Bartz
**Poster**

**Display time:** Mon, 12 Sep 09:00–Tue, 13 Sep 19:00  
**Attendance:** Tue, 13 Sep, 16:45–17:00 | Poster area  
**Chairpersons:** selma Castro, Silvio Rodrigues, Chiaki Oguchi

P67 | ICG2022-101  
**Correlation between geochemical parameters and topography of geocovers of quartzitic relief at tropical area: study case in Serra da Canastra, Brazil**  
Thallita Nazar, Silvio Rodrigues, Fabiana Santos, and Gelze Rodrigues

P68 | ICG2022-721  
**Micromorphological features and weathering in soils and soil-like bodies of ice-free areas of Eastern Antarctica**  
Ivan Alekseev, Ksenia Romashova, and Antonina Chetverova

P69 | ICG2022-53  
**Identification and soil characteristics of coastal terraces along the northern coast of the Gulf of Mexico.**  
Johan Liebens and Chelsea Randall

P70 | ICG2022-180  
**Combined effect of climate and vegetation on soil-landscape development in volcanic ecosystems (Galapagos, Ecuador)**  
Rose Paque, Ilia Alomia Herrera, Jean Dixon, Marcus Christl, and Veerle Vanacker

P71 | ICG2022-300  
**Dynamics of the slope at Bastos Archaeological Site - Dourado/SP/Brazil**  
Diego Machado, Thaís Fioravanti, and Francisco Ladeira

P72 | ICG2022-443  
**Ornithogenic soil genesis by flying birds in Maritime Antarctica: the role of landforms in the nests establishment**  
Fábio Oliveira, William Rodrigues, Carlos Ernesto Scahefer, and Maringela Leite

P73 | ICG2022-447  
**Soil transformations at the edge of the Pedregulho plateau, São Paulo, Brazil**  
Adriana Costa, Eduardo Pagliaroni, and Fabio Oliveira

P74 | ICG2022-640  
**Soil-landscape relationship in the watershed of the Rico stream, São Paulo State, Brazil.**  
Teresa Cristina Tarle Pissarra, Adriana Monteiro da Costa, Fábio Soares de Oliveira, and Renata Cristina Araújo Costa
Landscape analysis based on soil color in the windward slope of the Baturité Massif, northeastern Brazil

Jose Osmar Silva Neto, Larisse Freitas Soares, Vládia Pinto Vidal de Oliveira, and Anna Sabrina Vidal de Souza
ICG2022-16  **Biogeomorphology and Wetlands**  
Conveners: Heather Viles, Stephen Tooth, Dov Corenblit, Messias Modesto dos Passos

**Orals**
Mon, 12 Sep, 17:00–19:00 | Room Sala Sofia-C2B

**Poster**
Attendance Mon, 12 Sep, 16:30–16:45  
Display Mon, 12 Sep, 09:00–Tue, 13 Sep, 19:00 | Poster area

**Orals:**
Mon, 12 Sep | Room Sala Sofia-C2B  
**Chairpersons:** Stephen Tooth, Dov Corenblit, Heather Viles

17:00–17:15 | ICG2022-626  
**Quantifying natural rocky shore biogeomorphic interactions to inform eco-engineering designs for urban coasts.**  
Larissa A. Naylor, Mairi Mac Arthur, Jim D. Hansom, and Michael Burrows

17:15–17:30 | ICG2022-425  
**Coastal wetland restoration based on hydrogeomorphic space units ——Taking the coastal wetland of Yancheng, Jiangsu as an example**  
Yong Zhou, Yi Zhou, **Hongyu Liu**, Yufeng Li, Cheng Wang, and Alan Wright

17:30–17:45 | ICG2022-248  
**Contribution of Geomorphology to the dynamics of small continental wetlands with temporary flooding: the case of the Pantanal of the Pandeiros River, Brazil**  
**Diego Alves de Oliveira**, Cristina Helena Ribeiro Rocha Augustin, Paulo Roberto Antunes Aranha, Tom Dargie, Cristina Persano, and Rubens Martins Moreira

17:45–18:00 | ICG2022-591  
**Effects of beaver expansion in semi-natural and modified watercourses in the Tatra Mts foreland, Polish Carpathians: implications for river restoration.**  
Joanna Zawiejska

18:00–18:15 | ICG2022-297  
**Understanding the hydrology of a Swati peatland: A case study of Malolotja Nature Reserve, Eswatini**  
**Thandeka Ndlela**, Heinz Beckedahl, Althea Grundling, and Piet-Louis Grundling

18:15–18:30 | ICG2022-95  
**Restoring gullied peatlands: Natural Flood Risk Management benefits from landscape scale restoration of the 'badlands of Britain'**  
**Martin Evans**, Tim Allott, Emma Shuttleworth, Donald Edokpa, Tim Howson, David Malledge, Joseph Holden, Salim Goudarzi, Martin Kay, Joe Rees, Adam Johnston, Tom Spencer, Ikenna Osumborogru, Richard Grayson, Jamie Freestone, and Matt Scott-Campbell
18:30–18:45 | ICG2022-202
Biogeomorphological Wetland Formation and Long-term Human Interactions in Mesoamerica
Timothy Beach, Sheryl Beach, Samantha Krause, Byron Smith, and Colin Doyle

18:45–19:00 | ICG2022-606
Anthropogeomorphological Wetlands in South Africa
Renée Grundling, Heinz Beckedahl, and Michael Loubser

Poster

Display time: Mon, 12 Sep 09:00–Tue, 13 Sep 19:00
Attendance: Mon, 12 Sep, 16:30–16:45 | Poster area
Chairpersons: Stephen Tooth, Dov Corenblit, Heather Viles

P76 | ICG2022-216
Biogeomorphic interactions in ice-driven fluvial hydrosystems
Matthieu Prugne, Thomas Buffin-Bélanger, Maxime Boivin, and Dov Corenblit

P77 | ICG2022-192
Using SONAR to Investigate Relationships Between Fluvial Wood and Channel Bedform in a Low Gradient, Coastal Plain River
Derek Martin, Sarah Praskievicz, Josh Platt, and Stephanie Stephens

P78 | ICG2022-396
Effects of topography and geology on vegetation recovery after shallow landslides
Chenxi Zhong and Takashi Oguchi

P79 | ICG2022-6
Insect zoogeomorphology: Exploring the links between geomorphology and entomology
François Bétard

P80 | ICG2022-541
The predator-prey relationship from a zoogeomorphic perspective: An example with red fox (Vulpes vulpes) and bank swallow (Riparia riparia), Canada
Daniel Germain, Jenny Luciano, and Jean-François Milot

P81 | ICG2022-203
The geomorphic work of the European mole and its role as an ecosystem engineer. A case study from Oxfordshire, southern England.
Timothy Baxter, Sam Woor, and Heather Viles
A ten-year trajectory of change in a restored blanket peatland: implications for natural flood management

Emma Shuttleworth, Martin Evans, Allott Tim, Kay Martin, Johnston Adam, Donald Edokpa, Rees Joe Lake, Milledge David, Goudarzi Salim, Holden Joseph, Pilkington Michael, and Spencer Tom
ICG2022-17 **Applied Geomorphology**
Conveners: Olav Slaymaker, Sumiko Kubo, Antonio Guerra, Virginia Teles

**Orals**
Tue, 13 Sep, 09:00–10:30 | Room Sala Aeminium-C1A (b)

**Poster**
Attendance Tue, 13 Sep, 10:45–11:00
Display Mon, 12 Sep, 09:00–Tue, 13 Sep, 19:00 | Poster area

**Orals:**
Tue, 13 Sep | Room Sala Aeminium-C1A (b)
*Chairpersons:* Olav Slaymaker, Sumiko Kubo, Virginia Teles

09:00–09:15 | ICG2022-532
**Water Crisis in India: An Overview**
Archana Raje

09:15–09:30 | ICG2022-181
**How human impacts on geomorphology echo through the centuries: explaining the declining flow capacity in Australia's most important river, the Murray.**
Ian D. Rutherford, Thom Gower, James Grove, Christine Arrowsmith, Geoff Vietz, Ben Dyer, and Alex Sims

09:30–09:45 | ICG2022-252
**The Environmental Fragility of The Coastal Area of São Paulo In The Face of Contamination By Landfill: Contribution to the Possibilities of (Management) Decontamination and Reuse.**
Marisa Matos Fierz

09:45–10:00 | ICG2022-613
**Evaluating Landuse Changes due to Anthropogenic Activities in Highly Urbanized Flood Plain of Prayagraj city, Uttar Pradesh India**
Mukta Raje

10:00–10:15 | ICG2022-646
**Geomorphology and lithology as factors influencing hydrological dynamics. Comparative analysis of karst vs. non-karst watersheds in the central-western region of Portugal**
Isabel Paiva, Pedro Pinto dos Santos, João Pardal, Lucio Cunha, and Alexandre Tavares

10:15–10:30 | ICG2022-728
**Geomorphic and Sedimentological Evolution of Khagrachari-Mahalchari hills of Bangladesh**
Rajib Kumar Saha
Poster

**Display time:** Mon, 12 Sep 09:00–Tue, 13 Sep 19:00  
**Attendance:** Tue, 13 Sep, 10:45–11:00 | Poster area  
**Chairpersons:** Olav Slaymaker, Sumiko Kubo, Virgínia Teles

P83|ICG2022-14  
**Machine learning-based identification of the geomorphological units of the Northeastern sector of the San Luis Province - Argentina**  
*Ulises Rodrigo Magdalena,* Juan Pablo Zbrun Luoni, Guillermo Ribeiro, and Raul Reis Amorim

P84|ICG2022-38  
**Recognition of shallow landslides using object-based image analysis: preliminary results in the Gurutuba watershed, Brazil**  
*Helen Cristina Dias,* Daniel Hölbling, and Carlos Henrique Grohmann

P85|ICG2022-45  
**Reverse Landscaping – A proposal for reconstructing the disappearing landscapes through a multi-disciplinary approach (withdrawn)**  
*Mk Rafeequé,* Mk Sreeraj, Tr Anoop, and Sheela Nair

P86|ICG2022-235  
**Relationship between field observations of flood sand deposits and water depth applied to the identification of flood hazard areas (Sella River, NW Spain)**  
Elena Fernandez-Iglesias, *Rosana Menendez-Duarte,* and Gil Gonzalez-Rodriguez

P87|ICG2022-623  
**Analysis of sediment production through InVEst and Aries modeling in the Brazilian Cerrado**  
Christiane Brazão, *Renato Villela,* Nelson Ferreira Fernandes, and Leonardo Cassara

P88|ICG2022-285  
**Examining the root-soil interactions within live Vetiver grass buffers towards their deployment for riverbank stabilisation in the Gangetic delta lowlands of India**  
Priyank Pravin Patel and Sayoni Mondal
ICG2022-18  **Hillslope Processes and Landforms**
Conveners: Irasema Alcántara-Ayala, Katja Laute, Jean Poesen, João Osvaldo Rodrigues Nunes, Maria José Roxo

Orals
Thu, 15 Sep, 17:00–19:00 | Room Sala Aeminium-C1A (b),
Fri, 16 Sep, 09:00–10:30, 14:30–16:30 | Room Sala Aeminium-C1A (b)

Poster
Attendance Fri, 16 Sep, 10:45–11:00
Display Thu, 15 Sep, 09:00–Fri, 16 Sep, 19:00 | Poster area

**Orals:**
Thu, 15 Sep | Room Sala Aeminium-C1A (b)
**Chairpersons:** Jean Poesen, Katja Laute

17:00–17:05
Introduction
17:05–17:20 | ICG2022-164

**Landslides in a changing tropical environment: the North Tanganyika–Kivu rift region, Africa** (invited)

17:20–17:35 | ICG2022-96
**Occasional but severe: past debris flows and snow avalanches in the Helmos Mts. (Greece) reconstructed from tree-ring records**
Radek Tichavský, Aristeidis Koutroulis, Andrea Fabiánová, and Vilém Spálovský

17:35–17:50 | ICG2022-468
**Rainfall variability and geohidroecological functions of areas managed by traditional communities in Paraty (Rio de Janeiro, Brazil)** (withdrawn)
Joana Fraga, Ana Luiza Coelho Netto, and Rogério Ribeiro de Oliveira

17:50–18:05 | ICG2022-410
**Geomorphological characteristics of landslides in the Hrvatsko Zagorje (NW Croatia)**
Martin Krkač, Sanja Bernat Gazibara, Marko Sinčić, Hrvoje Lukačić, and Snježana Mihalić Arbanas

18:05–18:20 | ICG2022-292
**Agricultural Policy triggers Land Degradation in the dry Mediterranean Southern Alentejo, Portugal (1986–2021)**
Henrique Cerqueira, Maria José Roxo, and Adolfo Calvo-Cases
18:20–18:35 | ICG2022-464
Can piping erosion impact environment and society? Identifying new research gaps
Anita Bernatek-Jakiel and Estela Nadal-Romero

18:35–18:50 | ICG2022-552
Spatio-temporal patterns of sediment connectivity in vineyards: anthropogenic control and impacts on sediment yield (withdrawn)
Mathieu Fressard, Brian Chaize, and Étienne Cossart

18:50–19:00
Wrap up

Orals:

Fri, 16 Sep | Room Sala Aeminium-C1A (b)
Chairpersons: Maria José Roxo, Katja Laute

09:00–09:05
Introduction

09:05–09:20 | ICG2022-524
The Steinsholtsjökull rockslide and GLOF event in January 1967, in light of ongoing climate change in Iceland (invited)
Thorsteinn Saemundsson, Daniel Ben-Yehoshua, Nathan Smail, Ásta Rut Hjartardóttir, Greta Wells, Joaquin MC Belart, and Sinah Toschka

09:20–09:35 | ICG2022-185
An appraisal of Pre- and Post-failure regimes of a hillslope using stability, runout, and structural implications; A case study from the NW Himalaya
Imlirenla Jamir, Vipin Kumar, Arun Kumar Ojha, and Vikram Gupta

09:35–09:50 | ICG2022-1
Landslide scaling relationship and its seismic-climatic implications, Himalaya
Vipin Kumar, Imlirenla Jamir, Yaspal Sundriyal, Hans-Balder Havenith, Vikram Gupta, Raquel Melo, Neha Chauhan, Sharad Kumar Gupta, and Naresh Rana

09:50–10:05 | ICG2022-355
Static and Dynamic Slope Stability Analysis for locating Critical Slip Surface in Gangtok, Sikkim-Himalaya
Arnab Sengupta and Sankar Kumar Nath

10:05–10:20 | ICG2022-26
Snow avalanches as the main geomorphic active process on hillslopes in Nunavik, Canada
Armelle Decaulne, Najat Bhiry, Grenier Jérémy, and Funatsu Beatriz

10:20–10:30
Wrap up
Coffee break and poster session

**Chairpersons:** Katja Laute, Jean Poesen, Maria José Roxo

14:30–14:35
Introduction

14:35–14:50 | ICG2022-172
Seepage erosion and escarpment retreat in flysch formation under mid-latitude cold climate (invited)
*Francis Gauthier, Chloé Chouinard, and Tom Birien*

14:50–15:05 | ICG2022-639
Establishing regimes of landslide activity – Analysis of landslide triggers over the previous seven decades (Western Carpathians, Poland)
*Malgorzata Wistuba, Ireneusz Malik, Elżbieta Gorczyca, and Albert Ślęzak*

15:05–15:20 | ICG2022-453
Multidisciplinary study of a 40-year landslide history: who or what caused the reactivation?
*Filip Hartvich, Petr Tábořík, Jan Klimeš, Jan Blahůt, and Josef Stemberk*

15:20–15:35 | ICG2022-489
Hillslope-channel coupling, hazards, and environmental impacts of large landslides in the marine sedimentary rocks of Aotearoa New Zealand.
*Samuel McColl, Forrest Williams, and Ian Fuller*

15:35–15:50 | ICG2022-337
Impact of basic weather conditions on rock falling
Ela Šegina and Mateja Jemec Auflič

15:50–16:30
Wrap up

**Poster**

**Display time:** Thu, 15 Sep 09:00–Fri, 16 Sep 19:00
**Attendance:** Fri, 16 Sep, 10:45–11:00 | Poster area
**Chairpersons:** Maria José Roxo, Katja Laute, Jean Poesen

Introduction

P82 | ICG2022-18
Ecogeomorphological transect approach to evaluate the origin of gullies and badland-shaped morphologies in a high mountain environment: Sierra de las Nieves National Park (South of Spain).
*Juan F. Martinez-Murillo* and David Carruana-Herrera
Dike control on the morphology and formation of granitic inselbergs in Northeastern Brazil
Anna Sabrina Vidal de Souza, Rubson Pinheiro Maia, Eliomara Leite Meira Gomes, and Ana Beatriz da Silva Barbosa

Integrated geomatic surveying and data management in the investigation of slope dynamics in the Scoltenna basin, Northern Apennines (Italy)
Carlotta Parenti, Paolo Rossi, Mauro Soldati, Edda Pattuzzi, and Francesco Mancini

Changes in the relief and land use of landslide slopes during the 20-year period after an extreme hydrometeorological event (case study from the Polish Flysch Carpathians)
Elżbieta Gorczyca, Joanna Caputa, and Zuzanna Babicka

Streams characteristics of the Paraopeba River Watershed, Minas Gerais, Brazil
Teresa Cristina Tarle Pissarra, Fernando António Leal Pacheco, Renato Farias do Valle Junior, Maytê Maria Abreu Pires de Melo Silva, Carlos Alberto Valera, Marília Carvalho de Melo, and Luís Filipe Sanches Fernandes

Monitoring hillslope hydrology associated with rocky outcrops in an abrupt contact with talus deposits
Jenifer da Silva Roméro, Maria Maria Rocha Lamas, Nelson Ferreira Fernandes, and Eurípedes do Amaral Vargas Junior

Anatomy of ancient landslides along the front of the Daunia Sub-Apennine, Italy
Francesco Bucci, Mauro Cardinali, Luca Pisano, Francesco Filice, Veronica Zumpano, Francesca Santaloia, Michele Santangelo, Francesca Ardizzone, and Federica Fiorucci

Wrap up
ICG2022-19  **Geomorphological Hazards and Risk Management**  
Conveners: Bianca Carvalho Vieira, Helene Petschko, Ana Luiza Coelho-Netto, Alexandre Oliveira Tavares

**Orals**
Mon, 12 Sep, 14:30–16:30, 17:00–19:00| Room Sala Almedina-C2D  
Tue, 13 Sep, 09:00–10:30, 11:00–16:30| Room Sala Almedina-C2D

**Poster**
Attendance Tue, 13 Sep, 10:45–11:00  
Display Mon, 12 Sep, 09:00–Tue, 13 Sep, 19:00| Poster area  
Attendance Tue, 13 Sep, 16:45–17:00  
Display Mon, 12 Sep, 09:00–Tue, 13 Sep, 19:00| Poster area

**Orals**
Mon, 12 Sep | Room Sala Almedina-C2D  
**Chairpersons:** Ana Luiza Coelho-Netto, Tavares Alexandre Oliveira, Maria Carolina Villaça Gomes

14:30–14:45  
**Session Introduction and Outlook**  
**Tsunami hazards**

14:45–15:00| ICG2022-29  
**The enigmatic 1693 AD tsunami in the eastern Mediterranean Sea: new insights on the triggering mechanisms and propagation dynamics**  
Giovanni Scicchitano, Salvatore Gambino, **Giovanni Scardino**, Giovanni Barreca, Felix Gross, Giuseppe Mastronuzzi, and Carmelo Monaco

15:00–15:15| ICG2022-444  
**Coseismic uplift and coral mortality caused by the 23 June 2020, Mw 7.4 La Crucecita, Oaxaca, Mexico earthquake and tsunami**  
**Maria Teresa Ramírez-Herrera**, Néstor Corona, Héctor Nava, David Romero, Hamlet Torija, and Felipe Hernández Maguey  
**Landslide susceptibility, hazard and risk assessment**

15:15–15:30| ICG2022-305  
**Back-analysis of the Abbadia San Salvatore (Mt. Amiata, Italy) debris flow of July 27-28, 2019 using the WEEZARD system**  
**Michele Amaddii**, Giorgio Rosatti, Daniel Zugliani, Lorenzo Marzini, and Leonardo Disperati

15:30–15:45| ICG2022-411  
**Land Surface Temperature Controls Stability in Gentle Clay Slopes**  
**Marco Loche**, Gianvito Scaringi, and Luigi Lombardo
15:45–16:00 | ICG2022-669
**Involvement of geomorphological factors on the occurrence of mass movements along the Southern Escarpment of the Bamileke Plateau (West-Cameroon)**
*Raoul Merlin Ndonbou, David Guimolaine Nkouathio, Ghislain Zangmo Tefogoum, Christian Suh Guedjeo, and Paul Tematio*

16:00–16:15 | ICG2022-249
**Evaluation of the frequency and morphometric parameters of shallow landslides in Serra do Mar Paulista (withdrawn)**
*Camilla Capella, Bianca Vieira, and José Bonini*

16:15–16:30 | ICG2022-148
**Landslide hazard in the Abruzzo Region (Central Italy): landslides case studies in different geomorphological/morphostructural environments**
*Giorgio Paglia, Vania Mancinelli, Gianluca Esposito, Enrico Miccadei, Jacopo Cinosi, Valerio Piattelli, and Massimiliano Fazzini*

Coffee break and poster session
**Chairpersons:** Maria Carolina Villaça Gomes, Ana Luiza Coelho-Netto, Tavares Alexandre Oliveira

17:00–17:15 | ICG2022-648
**Incomplete landslide archive in landslide susceptibility assessment: a nested strategy for improving results.**
*Chiara Martinello, Claudio Mercurio, Chiara Cappadonia, Viviana Bellomo, Andrea Conte, Giampiero Mineo, Grazia Azzara, and Edoardo Rotigliano*

17:15–17:30 | ICG2022-731
**Epistemic uncertainties induced by landslides typology in Vrancea seismic region (SE Carpathians, Romania) and their implication in hazard evaluation**
*Mihai Micu*

17:30–17:45 | ICG2022-665
**Geomorphic landslide susceptibility assessment using Slope-Area plots**
*Mario Valiante and Domenico Guida*

17:45–18:00 | ICG2022-316
**Stochastic assessment of landslide susceptibility by using five different instability datasets: a case study from the southern sector of the “Via al Llano” highway (Colombia)**
*Laura Paola Calderon-Cucunuba, German Vargas-Cuervo, and Christian Conoscenti*

18:00–18:15 | ICG2022-388
**Applying a hierarchical Generalized Additive Model to integrate predisposing, preparatory and triggering factors for landslide prediction**
*Stefan Steger, Mateo Moreno, Alice Crespi, Peter James Zellner, Robin Kohrs, Jason Goetz, Stefano Luigi Gariano, Maria Teresa Brunetti, Massimo Melillo, Silvia Peruccacci, Lotte de Vugt, Thomas Zieher, Martin Rutzinger, Volkmar Mair, and Massimiliano Pittore*
18:15–18:30 | ICG2022-274
Landslide susceptibility assessment at a local scale: logistic regression analysis for upper Tanaro catchments
Victor Buleo Tebar, Federica Lucà, Mauro Bonasera, Michele Licata, Giandomenico Fubelli, and Gaetano Robustelli

18:30–18:45 | ICG2022-390
Prediction of Rainfall Induced Landslides Using Machine Learning Models along Highway-Bandipora to Gurez Road, J&K, India
Dr. Aadil Manzoor Nanda, Prof. Pervez Ahmed, and Prof. Tasawoor Ahmad Kanth

18:45–19:00 | ICG2022-543
Predicting earthquake-induced landslides by using a stochastic modeling approach which combines preparatory and triggering factors: a case study of the co-seismic landslides occurred on January 2001 in El Salvador (CA)
Claudio Mercurio, Chiara Martinello, Abel Alexei Argueta-Platero, Grazia Azzara, Edoardo Rotigliano, and Christian Conoscenti

Orals:
Tue, 13 Sep | Room Sala Almedina-C2D
Chairpersons: Susana Pereira, Grace Alves, Tavares Alexandre Oliveira

09:00–09:15 | ICG2022-493
TERRAIN SUSCEPTIBILITY TO TRIGGER SHALLOW PLANAR LANDSLIDE ON STEEP SLOPES: a geo-hydroecological approach at D'Antas creek basin, Nova Friburgo (RJ - Brazil).
Roberta Silva, Ana Luiza Coelho Netto, Willy Lacerda, and Flávio Nunes

09:15–09:30 | ICG2022-154
How well do landslide susceptibility maps hold up over time? Reviewing the accuracy of maps implemented for spatial planning in Lower Austria
Pedro Lima, Stefan Steger, Helene Petschko, Jason Goetz, Michael Bertagnoli, Joachim Schweigl, and Thomas Glade

09:30–09:45 | ICG2022-474
Simplicity vs. complexity – a long-standing challenge in the simulation of landslide runout
Martin Mergili and Jan-Thomas Fischer

09:45–10:00 | ICG2022-69
Future global debris flow susceptibility considering climate change, wildfire probability, and glacier retreat
Laurie Kurilla and Giandomenico Fubelli
10:00–10:15 | ICG2022-265
Gully erosion associated with peri-urbanization: focus on the catchments in the south of Kinshasa
Fils Makanzu Imwangana, Blaise Kamosi Zola, Joyce Mbiya Kangudia, and Serge Pangu Sanghy

10:15–10:30 | ICG2022-616
Risk assessment of earth mass movements in Lower Austria. Case study: NoeMotion Project
Yenny Alejandra Jiménez Donato, Pedro Lima, Maria Arango, and Thomas Glade

Coffee break
Chairpersons: Grace Alves, Susana Pereira, Alexandre Oliveira Tavares

11:00–11:15 | ICG2022-625
Assessing exposure changes to landsliding in Lisbon Metropolitan Area
Raquel Melo, José Luís Zêzere, Sérgio C. Oliveira, Ricardo A. C. Garcia, and Sandra Oliveira

11:15–11:30 | ICG2022-374
Extreme climate events and food security – a study case in the highlands of Rio de Janeiro, Brazil (withdrawn)
Ana Paula Turetta and Ana Luiza Coelho Netto

11:30–11:45 | ICG2022-628
The most recent disaster related to extreme rainfall induced landslides and floods: Petropolis, Rio de janeiro state, SE-Brazil.
Ana Luiza Coelho Netto, Manoel Fernandes, Flavio Nunes, Guilherme Bertassoni, Letícia Bolsas, Ana Carolina Facadio, Isadora Mefano e Silva, Aydam De Paula, Tomas Duek, Gabriel Thaumaturgo, and Luna Moreno
Flood hazard and risk assessment

11:45–12:00 | ICG2022-278
Assessment of fire effects to flood susceptibility: the case of the summer 2021 forest fires in Greece
Niki Evelpidou, Anna Karkani, Maria Tzouxanioti, Evangelos Spyrou, Theodore Gavalas, Giannis Saitis, and Alexandros Petropoulos

12:00–12:15 | ICG2022-654
Demarcation of Flood-Prone Zones in the Indian Part of the Ganga Delta Based on the Highest Floods between 1995 and 2020
Sayantan Das, Pritam Kumar Santra, Abhijit Das, Sajal Mondal, Sunando Bandyopadhyay, and Kalyan Rudra

12:15–12:30 | ICG2022-40
Fluvial Hazard Zone (FHZ) Mapping for Stream Corridor Management (withdrawn)
Michael Blazewicz
Lunch break

**Chairpersons:** Ana Luiza Coelho-Netto, Tavares Alexandre Oliveira, Susana Pereira

14:30–14:45 | ICG2022-146  
**Geomorphological approach to flash flood hazard and vulnerability evaluation in torrential basin-fan systems in Campania (South Italy)**  
**Giovanni Forte**, Melania De Falco, Nicoletta Santangelo, and Antonio Santo

14:45–15:00 | ICG2022-7  
**Evaluation of the return time of flash floods generated in the Roya Valley (Alpes Maritime, France) on October 2, 2020: What challenges does this type of event pose for risk management?**  
**Eric Fouache**, Stéphane Desruelles, Christian Gorini, Nicoletta Bianchi, and Adrien Marchiel

15:00–15:15 | ICG2022-593  
**Semi-automatic channel detection based on detailed LiDAR data for preliminary flood hazard assessment**  
**Lukáš Michaleje** and **Miloš Rusnák**

15:15–15:30 | ICG2022-222  
**Risk Assessments of Hydro-Power Projects along the Nagavali River, Odisha-Andhra Pradesh, India**  
**Shreya Bandyopadhyay** and **Sunil Kumar De**

15:30–15:45 | ICG2022-288  
**A Resilient Solution for Management of Beach Tourist Destination (NW Sicily, Italy)**  
**Anselme Muzirafuti**, Giovanni Randazzo, and Stefania Lanza

15:45–16:00 | ICG2022-73  
**Modelling of the outburst flood hydrograph due to the moraine lakes outbursts**  
**Galina Pryakhina**, Valeria Rasputina, and Sergey Popov

16:00–16:15 | ICG2022-341  
**Vulnerabilities in Post Yaas Environment and Probable Mitigation Strategies: Case Studies from Selected Sites, Sundarban, India**  
**Karabi Das** and **Kanailal Das**

16:15–16:30 | ICG2022-495  
**Spatial and temporal changes in urban fabric exposure to Sea Level Rise, from 1995 to 2018, in mainland Portugal**  
**Eusébio Reis**, Jorge Rocha, Andreia Silva, Jorge Trindade, José Luís Zêzere, Susana Pereira, Sérgio Oliveira, Ricardo Garcia, and Pedro Santos
Avalanche hazard, Flood hazard and risk assessment, Landslide susceptibility, hazard and risk assessment

P89 | ICG2022-10
Ascertaining potential debris-flow landslides and associated hazards, NW Himalaya, India
Neha Chauhan, Yaspal Sundriyal, Anil D. Shukla, and Vipin Kumar

P90 | ICG2022-143
Empirical rainfall thresholds for the triggering of landslides in northern Portugal and Spain: a preliminary overview
Pablo Valenzuela, Teresa Vaz, María José Domínguez-Cuesta, Susana Pereira, José Luís Zêzere, Victoria Rivas, Juan Remondo, Jaime Bonachea, Alberto González-Díez, Txomin Bornaetxea, Javier Sánchez-Espeso, Eliezer San Millán, and Lucía Francos

P91 | ICG2022-144
A literature review on the methods for climate related coastal risk assessment in the Mediterranean region
Nabanita Sarkar, Angela Rizzo, and Mauro Soldati

P92 | ICG2022-174
Rockfall forecasting models along the roads of northern Gaspésie (Eastern Canada)
Francis Gauthier, Jacob Laliberté, and Tom Birien

P93 | ICG2022-211
Julio Garrote, Daniel Vazquez-Tarrio, Andrés Díez-Herrero, Miguel Gómez-Heras, and Javier Martínez

P94 | ICG2022-255
Earthquake-induced landslides susceptibility assessment of the Abruzzo Region (Central Italy): a geomorphological approach.
Jacopo Cinosi, Valerio Piattelli, Gianluca Esposito, Vania Mancinelli, Giorgio Paglia, and Enrico Miccadei

P95 | ICG2022-269
Pluvial flood hazard mapping in coastal areas of Croatia
Nino Krvavica, Bojana Horvat, Ante Šiljeg, Ivan Marić, Silvija Šiljeg, Fran Domazetović, Lovre Panda, and Rajko Marinović
Landslides in a changing climate: assessment of hazard and exposure in the Arrábida (Portugal)
José Luís Zêzere, Eusébio Reis, Susana Pereira, Pedro Santos, Sérgio Oliveira, Ricardo Garcia, Raquel Melo, and Ana Rita Morais

The rainfall-triggered landslide event of November 1983 in the Lisbon Region: a contribution for the knowledge of regional slope instability
Ana Rita Morais, Sérgio C. Oliveira, Susana Pereira, and José Luís Zêzere

Insights from a long-term monitoring system of a slow-moving landslide at Hofermühle, Lower Austria.
Philipp Marr, Margherita Stumvoll, Robert Kanta, Yenny Alejandra Jimenez Donato, and Thomas Glade

Large landslide system full characterization in central Italy: relevance of geomorphological and geotechnical models to plan monitoring and risk mitigation works.
Francesco Seitone, Mauro Bonasera, Victor Buleo Tebar, Giandomenico Fubelli, and Michele Licata

GIS-based machine learning models for assessing landslide impact: A case study in King County, State of Washington, USA
Di Lu and Takashi Oguchi

Poster

Display time: Mon, 12 Sep 09:00–Tue, 13 Sep 19:00
Attendance: Tue, 13 Sep, 16:45–17:00 | Poster area
Chairpersons: Susana Pereira, Grace Alves, Tavares Alexandre Oliveira

A new geomorphological method for the evaluation of debris flow magnitude: a case study from the southern Apennines (Italy)
Alessandra Ascione, Manuela Palumbo, Stuart N. Lane, Nicoletta Santangelo, Antonio Santo, and Ettore Valente

A 130-year history of avalanche risk in the Fagaras Mountains, Romanian Carpathians deduced from interference with human activities
Mircea Voiculescu, Marcel Torok-Oance, and Diana Bodea
On the physical vulnerability of buildings exposed to landslide hazard: application to the Lisbon Metropolitan Area
Ana Cardoso, Susana Pereira, Tiago Miguel Ferreira, José Luís Zêzere, Raquel Melo, Teresa Vaz, Sérgio C. Oliveira, Ricardo A. C. Garcia, Pedro Pinto Santos, Eusébio Reis, and Paulo B. Lourenço

Comparing different strategies to incorporate the effectively surveyed area into landslide susceptibility modeling
Mateo Moreno, Stefan Steger, Luigi Lombardo, Lotte de Vugt, Thomas Zieher, Martin Rutzinger, Massimiliano Pittore, Volkmar Mair, and Cees van Westen

Contribution to a Suitable Rehabilitation of Rock Masses
Mônica Silva, Mário Quinta Ferreira, and Pedro Santarém

Physical vulnerability of buildings exposed to different flood hazards in the Lisbon Metropolitan Area
Pedro Pinto Santos, Eusébio Reis, José Luís Zêzere, Susana Pereira, Sérgio Cruz Oliveira, Ricardo A. C. Garcia, Maria Xofi, José Carlos Domingues, Paulo Lourenço, and Tiago Miguel Ferreira

Hydrological and hydraulic study of the Ceira river and its contribution to the flood peak discharge in Coimbra (Portugal)
João Pardal, Lúcio Cunha, Alexandre Oliveira Tavares, Pedro Pinto Santos, and Luís Leitão

Geotechnical characterization and slope stability evaluation of the gypsum quarry of Sogerela, Óbidos, Portugal
Renato Liscar, Mário Quinta-Ferreira, and Pedro Santarém Andrade

Future storylines of landslide susceptibility in the Styrian Basin, Austria. Accounting for environmental change and uncertainties
Raphael Knevels, Helene Petschko, Herwig Proske, Philip Leopold, Aditya Narayan Mishra, Douglas Maraun, and Alexander Brenning

Predicting the unknown: using transfer learning techniques for landslide susceptibility modelling
Zhihao Wang, Jason Goetz, and Alexander Brenning
Evaluation of exposure to mass movement processes using UAV-acquired aerial imagery: insights after the 2021 El Chiquihuite hill disaster, Estado de Mexico, Mexico
(withdrawn)
Ricardo Garnica-Peña and Irasema Alcántara-Ayala

Regional Scale Mapping of Debris-Flow Susceptibility in the Caminhos dos Cânions do Sul GeoPark, Southern Brazil
Marina Tamaki de Oliveira Sugiyama, Maria Carolina Villaça Gomes, Bianca Carvalho Vieira, and Vivian Cristina Dias
ICG2022-20  **Wildfires and Soil Erosion**  
Conveners: Lea Wittenberg, Luciano Lourenço, Fantina Tedim, António Bento-Gonçalves

Orals  
Mon, 12 Sep, 14:30–16:30|Room Sala Inês de Castro-C1E

Poster  
Attendance Mon, 12 Sep, 16:45–17:00
Display Mon, 12 Sep, 09:00–Tue, 13 Sep, 19:00|Poster area

Orals  
**Chairpersons:** Lea Wittenberg, Fantina Tedim

14:30–14:45|CG2022-727  
**Soil erosion after the 2017 forest fire of Braga (Portugal)**  
António Vieira, Antonio Bento Gonçalves, Jorge Novais, Saulo Folharini, and José Rocha

14:45–15:00|ICG2022-621  
**Effects of wildfires recurrency on soil erosion in a terraced burned Mediterranean catchment**  
Jaume Company, Josep Fortesa, Julián García-Comendador, and Joan Estrany

15:00–15:15|ICG2022-83  
**Assessment of Increased Debris Flow Hazard After Wildfires: Lessons from the Dalaman Fire, Eastern Mediterranean, Turkey**  
Tolga Gorum, Cihan Yildiz, Orkan Ozcan, Resul Comert, and Omer Yetemen

15:15–15:30|ICG2022-429  
**How do large wildfires impact sediment redistribution over multiple decades? A landscape evolution modelling assessment in a Mediterranean watershed.**  
Dante Follmi, Jantiene Baartman, Akli Benali, and Joao Pedro Nunes

15:30–15:45|ICG2022-560  
**Machine learning applied to soil erosion analysis in sub-watersheds with burned areas**  
Saulo Folharini, Tiago Marques, Sara Silva, Jorge Novais, António Bento-Gonçalves, and António Vieira

15:45–16:00|ICG2022-509  
**Tracing sediment sources after wildfire using polycyclic aromatic hydrocarbons**  
Kristen Kieta, Philip Owens, and Ellen Petticrew

16:00–16:15|ICG2022-259  
**Total Carbon content assessed by UAS near-infrared imagery as a new fire severity metric**  
Lea Wittenberg, Seham Hamzi, Dar Roberts, Charles Ichoku, Nurit Shtober-Zisu, and Anna Brook
16:15–16:30
Discussion

Poster

**Display time:** Mon, 12 Sep 09:00–Tue, 13 Sep 19:00  
**Attendance:** Mon, 12 Sep, 16:45–17:00 | Poster area  
**Chairpersons:** Fantina Tedim, Lea Wittenberg

P113|ICG2022-175  
**River adjustment to low-medium rainfall events because of wildfires in highly weathered landscapes**  
Miguel Gomez-Heras, **José Antonio Ortega-Becerril**, Julio Garrote, and Daniel Vázquez-Tarrío

P114|ICG2022-318  
**Lakes as the geoindicator of the thermokarst landscapes disturbances after the wildfires, Canadian Arctic**  
**Piotr Janiec**, Zbigniew Zwoliński, and Jakub Nowosad
ICG2022-21 **Sustainability in Geomorphology: Anthropocene and Urban Geomorphology**
Conveners: Laura Melelli, Maurizio Del Monte, Pierluigi Brandolini, Mário Quinta-Ferreira, Anabela Ramos

**Orals**
Tue, 13 Sep, 09:00–10:30, 11:00–12:30 | Room Sala Sofia-C2B

**Poster**
Attendance Tue, 13 Sep, 10:45–11:00
Display Mon, 12 Sep, 09:00–Tue, 13 Sep, 19:00 | Poster area

**Orals**
Tue, 13 Sep | Room Sala Sofia-C2B
**Chairpersons**: Laura Melelli, Mário Quinta-Ferreira

09:00–09:15 | ICG2022-643
**An Anthropocene, human-driven geomorphic change not determined by climate?**
Juan Remondo, Antonio Cendrero, Luis M. Forte, Achim A. Beylich, and Piotr Cienciala

09:15–09:30 | ICG2022-310
**The urban geomorphological survey and mapping as a support to risk assessment and communication tools, through the enhancement of the geological heritage.**
Alessia Pica and the AIGeo working group on Urban Geomorphology

09:30–09:45 | ICG2022-618
**Urban Anthropogeomorphological Wetlands – South African Case Studies**
Renée Grundling, Heinz Beckedahl, and Michael Loubser

09:45–10:00 | ICG2022-342
**Anthropogenic Landform Features in the Auriferous Region of Ouro Preto-MG-Brazil**
Cecília Félix Andrade Silva, Matheus Pacheco de Moura Pereira, Henrique Amorim Machado, and Jairo Rodrigues Silva

10:00–10:15 | ICG2022-357
**Relief changes generated by the urbanization process: urban geomorphology case study in the neighborhood Recreio dos Bandeirantes - Rio Janeiro (RJ).**
Ana Paula Silva Furtado, Armando Brito da Frota Filho, Stephany Emiliane Lopes da Silva, Marcelo Motta de Freitas, and Antônio José Teixeira Guerra

10:15–10:30 | ICG2022-732
**Geomorphic Landform Design and Landscape Evolution Modelling for Mine Rehabilitation in Portugal and Spain (LIFE RIBERMINE PROJECT)**
Ramón Sánchez, José F. Martín Duque, María Tejedor, Monica Martins, Ana Margarida Pereira, Alvaro Manuel Madureira Pinto, Jorge Manuel Rodrigues de Sancho Relvas, Gregory R. Hancock, Cristina Martín Moreno, and Javier de la Villa Albares
Coffee break

Chairpersons: Pierluigi Brandolini, Mário Quinta-Ferreira

11:00–11:15 | ICG2022-280
Multitemporal analyses of anthropogenic changes to the drainage network in urban areas: a case study in Rome (Italy)
Francesca Vergari, Alessia Pica, Simone Schiavella, Gian Marco Luberti, and Maurizio Del Monte

11:15–11:30 | ICG2022-531
Medium-term geomorphological changes along rivers in urban areas: the lower Bisagno and Polcevera Valleys in Genova city (Italy)
Andrea Mandarino, Pierluigi Brandolini, Martino Terrone, and Francesco Faccini

11:30–11:45 | ICG2022-615
Gully erosion episodes in the São Pedro valley at São Pedro de Moel, Portugal
Mário Quinta-Ferreira

11:45–12:00 | ICG2022-145
Quantifying the direct impacts and risks of large urban gullies in the Democratic Republic of Congo
Guy Ilombe Mawe, Eric Lutete Landu, Fils Makanzu Imwangana, Charles Nzolang, Caroline Michellier, Jean Poesen, Charles Bieldsers, Olivier Dewitte, Aurélie Hubert-Ferrari, and Matthias Vanmaercke

12:00–12:15 | ICG2022-473
Fluvial landforms as a constrain to urban development of Benevento (southern Italy)
Alessio Valente, Angelo Cusano, Paolo Magliulo, and Filippo Russo

12:15–12:30 | ICG2022-294
High resolution modelling of floodplain water storage capacity loss in a highly urbanized tropical catchment and its implications for flood management.
Iury Simas, Cleide Rodrigues, and Janet Hooke

Poster

Display time: Mon, 12 Sep 09:00–Tue, 13 Sep 19:00
Attendance: Tue, 13 Sep, 10:45–11:00 | Poster area
Chairpersons: Pierluigi Brandolini, Laura Melelli, Mário Quinta-Ferreira

P115 | ICG2022-135
A systematic classification and geomorphological characterisation of artificial grounds in Catalonia
Guillem Subiela, Fus Micheo, and Miquel Vilà
Urban geomorphology of Cagliari city (Italy)
Valentino Demurtas, Orrù Paolo Emanuele, Melis Rita, and Giacomo Deiana

The contribution of geomorphological processes to urban landscape modification, Poznan, Poland
Małgorzata Mazurek, Jarosław Jasiewicz, Zbigniew Zwoliński, Iwona Hildebrandt-Radke, and Mirosław Makohonienko

Urban geomorphology and urban geomorphological heritage of a small Alpine town: Sion, Switzerland
Emmanuel Reynard

The heterogeneity of the hydromorphological responses of a small peri-urban river to the urbanization of its basin
Lucile de Milleville, Frédéric Gob, Laurent Lespez, and Evelyne Tales

Drivers in the geo-environmental evolution of Northern Iberian watersheds during the Anthropocene
Pablo Cruz Hernández, Juan Remondo, Mario Morrelón, Jaime Bonachea, Antonio Cendrero, Jose Antonio Barreda, María Rivas, Victor Villasante-Marcos, José Luis Cavallotto, Luis María Forte, José Gómez-Arozamena, Antón Manoel Leira, and Carlos Sierra-Fernández

Sustainable metropolis development: a challenge for urban geomorphology research
Laura Melelli, Pierluigi Brandolini, Maurizio Del Monte, Alessia Pica, and Emmanuel Reynard

Geomorphological changes in the Anthropocene: fluvial systems for evaluating effects of the centenary urbanization processes of SÃO PAULO-BRAZIL.
Cleide Rodrigues

Effectiveness of measures aiming to stabilize urban gullies in tropical cities: results from field surveys across D.R. Congo
Eric Lutete Landu, Guy Ilombe Mawe, Fils Makanzu Imwangana, Jean Poesen, Olivier Dewitte, Charles Bielders, Aurélie Hubert-Ferrari, and Matthias Vanmaercke

Multitemporal Analysis of the process of gully in “Residential Dom Bosco”, Cachoeira do Campo, Ouro Preto-MG - Brazil
Jéssica Dutra Rodrigues, Cecília Félix Andrade Silva, and Jairo Rodrigues Silva
ICG2022-22  **Geoarchaeology**  
Conveners: Pierluigi Rosina, Maurizio Zambaldi

**Orals**  
Tue, 13 Sep, 11:00–16:30, 17:00–19:00 | Room Sala Inês de Castro-C1E

**Poster**  
Attendance Tue, 13 Sep, 16:45–17:00  
Display Mon, 12 Sep, 09:00–Tue, 13 Sep, 19:00 | Poster area

**Orals**  
Tue, 13 Sep | Room Sala Inês de Castro-C1E  
**Chairpersons:** Maurizio Zambaldi, Opeyemi Adewumi

11:00–11:15 | ICG2022-262  
**Micromorphological Insight into the Cave Sediments of Cadaval Cave, Tomar, Portugal.**  
**Opeyemi Adewumi,** Luiz Oosterbeek, Josep Vallverdú i Poch, Mário Quinta-Ferreira, Pierluigi Rosina, Telmo Pereira, and Sara Garcês

11:15–11:30 | ICG2022-703  
**The environmental context of Subneolithis settlement of Nieman Culture in Podlasie region (NE Poland)**  
**Marcin Frączek,** Tomasz Kalicki, and Adam Wawrusiewicz

11:30–11:45 | ICG2022-730  
**Buried by lake sediments, revealed by deflation: the MSA of Makgadikgadi, central southern Africa**  
**David Thomas,** Sallie L. Burrough, Sheila Coulson, Sarah Mbothulatshipi, David J. Nash, and Sigrid Staurset

11:45–12:00 | ICG2022-75  
**The paleoenvironment of Mahasthangarh (Bangladesh) during the Pre-Modern Period.**  
**Yohan Chabot,** Vincent Lefevre, and Coline Lefrancq

12:00–12:15 | ICG2022-334  
**How geomorphological processes conditioned the historical evolution of the Greek-Roman city of Tyndaris (Messina Province, Northern Sicily, Italy)**  
**Mauro Bonasera,** Francesco Parizia, Francesco Gregorio, Stefania Lanza, Luigi Perotti, Walter Alberto, Mario Vitti, Giandomenico Fubelli, and Giovanni Randazzo

12:15–12:30  Discussion  

Lunch break
Chairpersons: Maurizio Zambaldi, Opeyemi Adewumi

14:30–14:45|ICG2022-116
Chrono-sequences of alluvial terraces and fossilized water bodies as a predictive model for detecting Lower and Middle Palaeolithic sites in the Negev desert, Israel
Avni Yoav, Oron Maya, Cohen-Sasson Eli, Porat Naomi, and Barzilai Omry

14:45–15:00|ICG2022-386
Geoarchaeology of the alluvial plain deposits at Entrecampos, Lisboa: first insights for a stratigraphic reconstruction
Luís Almeida, Maurizio Zambaldi, Cristina Gameiro, João Leônidas, Nelson Antunes, Natacha Nogueira, and Nuno Neto

15:00–15:15|ICG2022-84
Holocene fluvial archives and contributions for the study of prehistoric and protohistoric periods, southern piedmont the Hajar Mountains (Oman)
Tara Beuzen-Waller

15:15–15:30|ICG2022-580
Long- to short-term environmental changes in the Bao Bolon River valley (Senegal). A geoarchaeological perspective on a World Heritage site (Waran).
Aziz Ballouche, Mathilde Stern, Emmanuel Weisskopf, David Landry, Aline Garnier, Hamady Bocoum, and Luc Laporte

15:30–15:45|ICG2022-218
Evolution of fluvial environments and history of human settlements on the Ticino river alluvial plain (Southern Switzerland)
Dorota Czerski, Daphné Giacomazzi, and Cristian Scapozza

15:45–16:00|ICG2022-333
Stratigraphic record of lagoonal management since Antiquity: insights from sediment core analysis and sub-bottom profiling, lagoon of Orbetello, Italy
Guillaume Jouve, Cécile Vittori, Gilles Brocard, Matteo Pili, Camille Gonçalves, Amber Goyon, Brahimnsamba Bomou, Kévin Jacq, Maxime Debret, Laurent Mattio, Lionel Darras, Christophe Benech, Quentin Vitale, Adèle Bertini, Marco Loporatti-Persiano, Fabio Cianchi, Christine Oberlin, Pierre Sabatier, Valérie Mesnage, and Jean-Philippe Goiran

16:00–16:15|ICG2022-523
Ongoing Investigations of the Pleistocene sea-level fluctuations at the Balzi Rossi archaeological area, Ventimiglia, Italy
Deirdre Ryan and the SPHeritage Project

16:15–16:30 Discussion

Coffee break and poster session
**Chairpersons:** Maurizio Zambaldi, Opeyemi Adewumi

17:00–17:15 | ICG2022-251

*Land abandonment and soil erosion following Late Antiquity in the northwestern Negev, Israel*

*Nurit Shtober-Zisu, Anna Brook, and Boaz Zissu*

17:15–17:30 | ICG2022-72

*Pattern, structure, archaeology, chronology and functionality of the Early Islamic Plot-and-Berm agroecosystem by ancient Caesarea, Israel*

*Joel Roskin, Lotem Robins, Adam Ostrowsky, Revital Bookman, and Itamar Taxel*

17:30–17:45 | ICG2022-673

*Geoarchaeological approach of the prehistoric inhabitation reconstruction of a key-region (Brăila-Jijila) from the Lower Danube Valley*

*Laurentiu Tutuianu, Mihaela Dobre, Diana Hanganu, Tiberiu Sava, Luminița Preoteasa, Sorin Ailincăi, Cătălin Lazăr, and Alfred Vespremeanu-Stroe*

17:45–18:00 | ICG2022-171

*Geoarchaeological data from a Bronze Age upland site: MZ051S (Val di Sole, Italy)*

*Laura Vezzoni, Maurizio Zambaldi, Francesco Carrer, and Diego Angelucci*

18:00–18:15 | ICG2022-525

*Impact of 2.7-ka climatic event on the local inhabitants of the Ararat Plain seen from the Metsamor perspective (S Armenia)*

*Barbara Woronko, Krzysztof Jakubiak, and Mateusz Iskra*

18:15–18:30 | ICG2022-702

*Lusatian circles on wetlands in NE Poland - results of geoarchaeological research*

*Tomasz Kalicki and Krzysztof Żurek*

18:30–18:45 | ICG2022-652

*High concentration of relict mining shafts and relict charcoal hearths as a geomorphological legacy of ancient-modern metallurgy in southern Poland*

*Ireneusz Malik, Małgorzata Wistuba, Paweł Rutkiewicz, and Zbigniew Pawlak*

18:45–19:00 | Discussion
Poster

**Display time:** Mon, 12 Sep 09:00–Tue, 13 Sep 19:00  
**Attendance:** Tue, 13 Sep, 16:45–17:00 | Poster area  
**Chairpersons:** Maurizio Zambaldi, Opeyemi Adewumi

P125 | ICG2022-196  
**Spatio-temporal correlation of Pleistocene palaeoflood deposits in Late Mousterian archaeological sites of Central Spain**  
**Andres Diez-Herrero, David Alvarez-Alonso, Julio Garrote, Jesus F. Jorda Pardo, Mario Hernandez-Ruiz, Maria de Andres-Herrero, Alfonso Sopeña, Yolanda Sanchez-Moya, and Gerardo Benito**

P126 | ICG2022-243  
**Deciphering stratigraphy and formation processes at the open-air Portela 2 archaeological site (Central Portugal)**  
Maurizio Zambaldi, Luca Dimuccio, Diego E. Angelucci, and Cristina Gameiro

P127 | ICG2022-437  
**New geoarchaeological investigation at the Balzi Rossi archaeological area (Ventimiglia, Italy): the contribution of the SPHeritage Project**  
**Andrea Zerboni** and the SPHeritage Project

P128 | ICG2022-110  
**Cova Rosa revisited. New geoarchaeological research at the Upper Pleistocene – Lower Holocene site of Cova Rosa (Sardéu, Ribadesella, Asturias, Spain).**  
**Jesús F. Jordá Pardo**, Pilar Carral, Carlos Duarte, Adolfo Maestro, Alfredo Maximiano, Juana Molina, Ramón Obeso, Colectivo Espeleológico L’Esperteyu Cavernícola Espeleo Club, and Esteban Álvarez-Fernández

P129 | ICG2022-594  
**Pedoarchaeology and hillslope evolution at a Late Pleistocene/Holocene human settlement in Southeastern Brazil: Bastos site study case**  
**Francisco Ladeira**

P130 | ICG2022-187  
**Geoarchaeological approach of the middle Eure valley (Paris Basin, France): benchmarks for reconstructing both palaeoenvironments and human occupations during the Mid- and Late Holocene**  
**Théophile Piau**, François Bétard, and Fabienne Dugast

P131 | ICG2022-193  
**Extraordinary floods related to warm periods: geoarchaeological record of the Roman theatre of Guadix (SE Spain)**  
Holocene evolution of coastal dunes in western France: regional reconstruction from archaeological and historical data
Aneta Gorczynska, Pierre Stephan, Yvan Paillet, Clément Nicolas, Aurélie Penaud, Ophélie David, Muriel Vidal, and Bernard Le Gall

Ancient Poliochni Geoarchaeological Research: Its proximity to the sea and the possible location of an ancient harbor (North Aegean Sea, Greece).
Konstantinos Vouvalidis, Vasilios Kapsimalis, Panagiotis Tsourlos, Olga Koukousioura, Konstantinos Almpanakis, Janusz Czebreszuk, Eleni Aidona, Sofia Doani, Dimitrios Vandarakis, and Grigoria-Vasiliki Dimou

A geoarchaeological perspective on the Holocene dynamics of Someşul Mic floodplain (Transylvanian Basin, Romania)
Aurel Persoiu and Ioana Persoiu

Emergency Geoarchaeology in an urban context
Hugo Gomes, Cristiana Ferreira, Rita Ferreira, Pierluigi Rosina, and Virginia Lattao

Exploring the relations between archaeological/historical sites and topography in Japan and China by machine learning methods
Yuan Wang and Takashi Oguchi

Geo-biological data complete historical and archaeological archives for documenting deltaic landscape transformations and human impact at Chilia-Lycostomo (Northern Danube delta)
Luminita Preoteasa, Diana Hanganu, Anca Dan, Gabriela Florescu, Mihaela Dobre, Gabriela Sava, and Alfred Vespremeanu-Stroe
ICG2022-23  Connectivity in Geomorphology
Conveners: Ronald Pöppl, Anthony Parsons, Archimedes Perez Filho, Isabel Paiva

Orals
Mon, 12 Sep, 17:00–19:00 Room Sala Inês de Castro-C1E

Poster
Attendance Mon, 12 Sep, 16:45–17:00
Display Mon, 12 Sep, 09:00–Tue, 13 Sep, 19:00 Poster area

Orals: Mon, 12 Sep | Room Sala Inês de Castro-C1E
Chairpersons: Ronald Pöppl, Isabel Paiva

17:00–17:15 | ICG2022-16
Hydrologic connectivity in a prairie hillslope seep system, Texas, USA
Michael Slattery, Sharra Blair-Kucera, and Peter McKone

17:15–17:30 | ICG2022-92
Types and scales of changes in connectivity in dryland fluvial systems
Janet Hooke

17:30–17:45 | ICG2022-250
Sediment transport connectivity and its response in the fluvial ecosystem detected with high-resolution data
Miloš Rusnák, Milan Lehotský, Anna Kidová, Ján Kaňuk, Ján Šašak, Peter Labaš, Lukáš Michaleje, and Ján Sládek

17:45–18:00 | ICG2022-320
The Waipaoa River Story: how changing connectivity modulates catchment-scale response times and prospective river futures
Ian Fuller, Gary Brierley, Brenda Rosser, Jon Tunnicliffe, and Mike Marden

18:00–18:15 | ICG2022-491
Sediment Connectivity: Punctuated Anthropogenic Sediment Production and Dynamic Sediment Delivery Ratios
Allan James

18:15–18:30 | ICG2022-568
Overview on Index of Connectivity applications: towards a quantitative approach.
Marco Cavalli, Stefano Crema, Stefan Steger, Vittoria Scorpio, Francesco Comiti, Giorgia Macchi, and Lorenzo Marchi

18:30–18:45 | ICG2022-581
Understanding the transfer of instream large wood through river networks with graph theory
Bryce Finch and Virginia Ruiz-Villanueva
Coupling landslide susceptibility and connectivity models for cost-effective mitigation of landslide-derived sediment delivered to streams

Raphael Spiekermann, Hugh Smith, Sam McColl, Lucy Burkitt, and Ian Fuller

Poster

Display time: Mon, 12 Sep 09:00–Tue, 13 Sep 19:00
Attendance: Mon, 12 Sep, 16:45–17:00 | Poster area
Chairpersons: Ronald Pöppl, Isabel Paiva

P138|ICG2022-415
Assessing sediment connectivity on agricultural hillslopes using sediment transport modeling and network analysis
John Edward Perez, Ronald Poepppl, Laura Turnbull, and John Wainwright

P139|ICG2022-49
Sediment sources, sediment dis-connectivity and rates of denudation and land-to-sea solute and sedimentary fluxes in selected Mediterranean catchment systems in eastern Spain
Achim A. Beylich and Katja Laute

P140|ICG2022-306
Regional-scale application of a novel data-driven approach to assess susceptibility and (dis-)connectivity of debris flow: a case study in the Dolomites in South Tyrol (Italy)
Felix Pitscheider, Stefan Steger, Marco Cavalli, Francesco Comiti, and Vittoria Scorpio

P141|ICG2022-470
Linking spatial patterns of catchment-averaged denudation rates with sediment connectivity in Alpine catchments
François Clapuyt and Veerle Vanacker

P142|ICG2022-559
Spatial patterns of erosion susceptibility and sediment connectivity in an agricultural catchment : the case of Mercurey (Burgundy, France) over the Holocene (withdrawn)
Brian Chaize, Mathieu Fressard, and Étienne Cossart

P143|ICG2022-564
Graph theory structure to describe sediment connectivity: application in the Beaujolais vineyard landscapes (withdrawn)
Jessaica Pic, Mathieu Fressard, and Etienne Cossart

P144|ICG2022-409
Effects of terracing and land use management techniques on hydrological connectivity and water yield in a Mediterranean mid-mountain basin
Manel Llena, Estela Nadal-Romero, Makki Khorchani, Melani Cortijos-López, Javier Zabalza, and Teodoro Lasanta
Marginal dikes promote disconnection between slopes and artificial channels: Study case in Central Brazil.
Sílvio Rodrigues, Gelze Rodrigues, and Renato Silva

Natural and mining legacies in Nalón river floodplain deposits (NW Iberian Peninsula)
Rosana Menéndez-Duarte, Daniel Vazquez-Tarrio, Elena Fernandez-Iglesias, Pelayo Tomillo, Isabel Suarez-Ruiz, Eduardo Rodriguez-Valdes, and Alicia Mediaidea

Global Change and sediment yield from the study of headwater reservoir sedimentation in the Cantabrian Mountains (Northwest Spain).
Alfonso Pisabarro, Javier Santos-González, Enrique Serrano, Ignacio Rodríguez-Muñoz, Mariano Cebrián del Moral, Adrián Melón-Nava, Sergio Pérez-Muñoz, and Rosa Blanca González-Gutiérrez

Identification and assessment of sediment sources and sediment transfer processes in a Mediterranean Agroecosystem in the Northern Apennines, Italy (withdrawn)
Manuel La Licata, Manuele Bettoni, Alberto Bosino, and Michael Maerker

Comparison of the methods for valley bottom extraction: A case for the mountain drainage basin where colluvial and bedrock valleys dominate
Won Young Lee, Hui Chen, and Jongmin Byun

Hydrological response of two contrasting small Mediterranean Mountainous catchments in the Middle Atlas - Morocco
Hassan Ouakhir, Josep Fortesa, Hanane Reddad, Julián García-Comendador, Yahia El Khalki, Mohamed El Ghachi, and Joan Estrany
ICG2022-24  **Geoheritage, Cultural Geomorphology and Geotourism**  
Conveners: Paola Coratza, Zbigniew Zwoliński, José Brilha, Nickolas Zouros, António Vieira

Orals  
Mon, 12 Sep, 14:30–16:30, 17:00–19:00 | Room Sala Aeminium-C1A (a),  
Tue, 13 Sep, 09:00–10:30, 11:00–16:30, 17:00–19:00 | Room Sala Aeminium-C1A (a)

Poster  
Attendance Tue, 13 Sep, 10:00–10:45  
Display Mon, 12 Sep, 09:00–Tue, 13 Sep, 19:00 | Poster area

Orals  
Mon, 12 Sep | Room Sala Aeminium-C1A (a)  
**Chairpersons:** Paola Coratza, António Vieira, Zbigniew Zwoliński  
Geodiversity and geoheritage

14:30–14:45 | ICG2022-22  
"Simply the best": searching for the world's top geotourism destinations  
Murray Gray

14:45–15:00 | ICG2022-5  
Anthills and termite mounds as a biogeomorphological heritage  
François Bétard

15:00–15:15 | ICG2022-324  
Landslides in the global geoheritage  
Costanza Morino, Paola Coratza, and Mauro Soldati

15:15–15:30 | ICG2022-68  
Geodiversity and Geoheritage value of balanced and pedestal rocks in South America  
Jorge Rabassa, Cliff Ollier, and Francisco Ladeira

15:30–15:45 | ICG2022-98  
Two-level assessment of threats to geodiversity and geoheritage  
Lucie Kubalíková

15:45–16:00 | ICG2022-496  
Sustainable development goals, values of geodiversity and geosystem services from a geomorphological perspective  
Zbigniew Zwoliński

16:00–16:15 | ICG2022-183  
Conserving geo-heritage ---Practical and application  
Jiun-Chuan Lin
16:15–16:30 | ICG2022-220
Landscape and Society: new proposals towards a shared knowledge
Francesca Lugeri, Fabrizio Bendia, and Piero Farabollini

Coffee break and poster session

Chairpersons: Paola Coratza, António Vieira, Zbigniew Zwoliński

Geoheritage assessment

17:00–17:15 | ICG2022-52
Geotourism assessment at municipal scale in Costa Rica
Michael E. Quesada-Valverde and Adolfo Quesada-Román

17:15–17:30 | ICG2022-132
Proposal of a quantitative assessment method for viewpoint geosites
Marco Túlio Mendonça Diniz and Isa Gabriela Delgado de Araújo

17:30–17:45 | ICG2022-140
A methodology to assess cultural geo-resources: encouraging geotourism in Tierra del Fuego (southern Patagonia, Argentina)
Soledad Schwarz, Monica Salemme, and Andrea Coronato

17:45–18:00 | ICG2022-229
Application and analysis of two methodologies for spatialization of geodiversity indices in the Brazilian Amazon
Juliana Silva, Julio Silva, João Teobaldo Neto, and Fernando Manosso

18:00–18:15 | ICG2022-385
An assessment of potential, scope and significance of Geomorphosites, Geoparks, Geoheritage and Geotourism in some parts of Uttar Pradesh and Madhya Pradesh states of India
Azizur Rahman Siddiqui

18:15–18:30 | ICG2022-395
Geomorphology significance for the evaluation of geodiversity-biodiversity correlation. Preliminary results from Rome urban area (Italy)
Alessia Pica, Martina Burnelli, Giulia Capotorti, Laura Melelli, Francesca Vergari, and Maurizio Del Monte

18:30–18:45 | ICG2022-412
From geomorphosite assessment and mapping to experiential geosciences-based tourism activities: the case of the Monte Serrone Fault geosite (Central Italy)
Tommaso Placentini, Umberto Di Salvatore, Gianclemente Berardini, Antonio De Ioris, Luca Roselli, and Enrico Miccadesi
Application of a Geobiodiversity Index to Natural Protected Areas in Northern Portugal

Antonio Vieira, Gabriella Emilly Pessoa, Valdir Adilson Steinke, Antonio Bento Gonçalves, Saulo Folharini, Jorge Novais, Sara Silva, and Tiago Marques

Orals:

Tue, 13 Sep | Room Sala Aeminium-C1A (a)

Chairpersons: Paola Coratza, António Vieira, Zbigniew Zwoliński

Geoheritage and geoconservation strategies

09:00–09:15 | ICG2022-419
Degradation Risk Assessment: Understanding the Impacts of Climate Change on Geoheritage

Lidia Selmi, Thais Siqueira Canesin, Ritienne Gauci, Paulo Pereira, and Paola Coratza

09:15–09:30 | ICG2022-725
Integration of geoheritage in strategies for climate change resilient tourism in protected areas of Northern Portugal

Antonio Vieira, Antonio Bento-Gonçalves, Saulo Folharini, Jorge Novais, Sara Silva, and Tiago Marques

09:30–09:45 | ICG2022-592
Combining two geomorphological mapping legends for geotourism maps: examples from Tunisia and Switzerland

Tarek Ben Fraj, Christophe Lambiel, Aziza Ghram Messedi, Mélanie Clivaz, Hédi Ben Ouezdou, and Emmanuel Reynard

09:45–10:00 | An exceptional Geoheritage Potential of the Cenozoic Successions of Western Kutch, India towards Conservation and Sustainable Development

Shubhendu Shekhar

10:00–10:15 | ICG2022-163
Seh Qaleh, a heaven for desert backpackers and astronomers in Iran

Esmail Elahpour

Learning strategies for geoheritage

10:15–10:30 | ICG2022-312
Interpreting geodiversity and long-term landform evolution – limited role of ‘classic’ geosites and the advantages of modern technologies (Sudetes range, Central Europe)

Piotr Migoń, Milena Różycka, and Kacper Jancewicz

Coffee break
Chairpersons: Paola Coratza, António Vieira, Zbigniew Zwoliński

11:00–11:15 | ICG2022-299
Geological, cultural and emotional aspects for the valorization of existing and potential geosites: some case studies in the Valmarecchia and Montefeltro historical region (Northern Apennines, Italy).
Veronica Guerra, Maurizio Lazzari, and Laura Valentini

11:15–11:30 | ICG2022-657
Typology of plutonic geoheritage in the locality of Lara: A contribution for the enhancement of touristic offers in the Far North Region of Cameroon
Hyacinthe Zouyane Nouhou Dama, Ghislain Zangmo Tefogoum, Irène Mafo Dongmo, and Merlin Gountié Dedzo

11:30–11:45 | ICG2022-319
Landforms in Old Landscape Paintings of Jeju Island, Korea, and Their Implications of Geomorphological Perception
Taeho Kim

11:45–12:00 | ICG2022-549
Heritage value and didactic potential of geomorphological landscapes: the case of eight sites in the Central High Atlas (Morocco)
Jonathan Bussard

12:00–12:15 | ICG2022-309
Increasing geoheritage awareness through non-formal learning
Paola Coratza, Alessandro Ghinoi, and Vittoria Vandelli

12:15–12:30 | ICG2022-627
Assessing trail surface erosion and walkability for a sustainable management of mountain trails (withdrawn)
Yuichi Hayakawa, Teiji Watanabe, Ting Wang, and Meng Yu

Lunch break

Chairpersons: Paola Coratza, António Vieira, Zbigniew Zwoliński

14:30–14:45 | ICG2022-704
Geoheritage Mapping issues and solutions for national official cartographic products: the Italian case study
Irene Bollati, Paola Coratza, Marco Giardino, and Manuela Pelfini

14:45–15:00 | ICG2022-273
Geotourist and teaching assessment of geomorphosites in Natural Protected Areas: application in the Cañón del Río Lobos Natural Park, Spain
Enrique Serrano, María José González-Amuchastegui, and Rosa María Ruiz-Pedrosa

Geoparks and protected area
15:00–15:15 | ICG2022-89
The contribution of geoheritage to the community maps of the Comuniterrae Project (Sesia Val Grande UNESCO Global Geopark)
Irene Maria Bollati, Valeria Caironi, Alessio Gallo, Eliana Muccignato, Manuela Pelfini, and Tullio Bagnati

15:15–15:30 | ICG2022-455
The Guaritas geosite of the Caçapava Aspiring Geopark in southernmost Brazil: geology, geomorphology, ecology and culture
André Borba

15:30–15:45 | ICG2022-476
Inventory and assessment of geosites in Taburno-Camposauro Aspiring Geopark
Alessio Valente, Angelo Cusano, Paolo Magliulo, and Filippo Russo

15:45–16:00 | ICG2022-586
The Geological Heritage of Estrela Geopark and the development of a Geotourism strategy: challenges and opportunities
Patrícia Azevedo, Emanuel de Castro, Fábio Loureiro, and Magda Fernandes

16:00–16:15 | ICG2022-589
The use of mobile applications and online GIS platforms for the geosites characterization in the Atlantic Geopark Project, Portugal (withdrawn)
Emmaline M. Rosado-González, Salomé Custódio, Nuno Monteiro Vaz, José Manuel Martinho Lourenço, Maria Helena Henriques, and Artur Abreu Sá

16:15–16:30 | ICG2022-601
Application of density analysis for quantitative assessment of the geoheritage and its implementation in the Courel Mountains UNESCO Global Geopark (Spain)
Daniel Ballesteros and the Workingroup for the geosite inventory of Courel Mountains UGGp

Coffee break and poster session

Chairpersons: Paola Coratza, António Vieira, Zbigniew Zwoliński

17:00–17:15 | ICG2022-680
Beyond canyons and waterfalls: geomorphological units as geoheritage of Caminhos dos Cânions do Sul Geopark, Southern Brazil
Maria Carolina Villaça Gomes, Jairo Valdati, Yasmim Rizzolli Fontana dos Santos, and Thales Vargas Furtado

17:15–17:30 | ICG2022-378
Mount Greco and Chiarano Valley (Central Italy): an example of geotourism in the Abruzzo, Lazio, and Molise National Park
Daniela D’Amico, Gianluca Esposito, Vania Mancinelli, Enrico Miccadi, Giorgio Paglia, Luciano Sammarone, and Cinzia Sulli
Cultural geoheritage

17:30–17:45 | ICG2022-539
**Landscapes due to rock spreading and block sliding: natural fortresses, sacred sites, valuable archaeological and scenic resources**
Stefano Devoto, Maria Carrión, Stefano Furlani, Antonio Jalaboy, Alessandro Pasuto, Mauro Soldati, and Jorge Pedro Galve

17:45–18:00 | ICG2022-696
**Selected issues of geoheritage, cultural geomorphology and geotourism in Krakow city and surrounding areas, Poland**
Adam Lajczak and Roksana Zarychta

18:00–18:15 | ICG2022-458
**Geoheritage linked to cultural and natural landscape value in the ophiolites of the Northern Apennines (Italy)**
Andrea Ferrando, Francesco Faccini, Roberto Cabella, and Paola Coratza

18:15–18:30 | ICG2022-221
**Geothermal landscapes as an inspiration for Dante’s Inferno: implications for the development of geotourism**
antonio raschi

18:30–18:45 | ICG2022-599
**Agricultural infrastructure as cultural geomorphosites: case studies in Switzerland and Tunisia**
Emmanuel Reynard, Tarek Ben Fraj, Aziza Ghram Messedi, and Hédi Ben Ouezdou

18:45–19:00 | ICG2022-645
**Cultural Geomorphology and Geotourism in the digital information age. Using Geographic Information Technologies to support natural heritage valorisation in São Pedro do Sul municipality**
Rui Ferreira

Poster

**Display time:** Mon, 12 Sep 09:00–Tue, 13 Sep 19:00
**Attendance:** Tue, 13 Sep, 10:30–10:45 | Poster area
**Chairpersons:** Paola Coratza, António Vieira, Zbigniew Zwoliński

P151 | ICG2022-17
**Geotourism on trails located in Protected Areas in Southeastern Brazil**
Luana Rangel, Maria do Carmo Jorge, and Antonio Guerra

P152 | ICG2022-108
**Geodiversity in elementary school: knowing the rocks and soils to recognize the Geoheritage in Rio de Janeiro City, Brazil**
Luana Rangel, Maria Jorge, Maria Vitorio Allochio, and Antonio Guerra
Geodiversity and valorization of abiotic objects in the Tuchola Forest Biosphere Reserve (N Poland)
Izabela Jamorska, Szymon Belzyt, Włodzimierz Wysocki, and Arkadiusz Krawiec

Women representation in UNESCO Global Geoparks of Portugal
Luiza Friedrich Garcia and Maria Helena Henriques

Impacts, vulnerability and resilience of Geoheritage to Climate Change in the four Canary Islands National Parks (Spain)

Hydro-geomorphological based solutions for geoheritage management in the ‘Caldera de Taburiente’ National Park (La Palma, Canary Islands, Spain)
Julio Garrote, Andres Diez-Herrero, Juana Vegas, Daniel Vazquez-Tarrio, M. Angeles Perucha, and Pablo L. Mayer

A new UNESCO Global Geopark at the southern Dead Sea, Jordan – first concepts and hazard monitoring
Djamil Al-Halbouni, Osama AlRabayah, and Lars Rüpke

Geotourism activities in the aspiring Geopark Valleys of Cantabria
Jaime Bonachea, Victoria Rivas, Juan Remondo, Alberto González-Díaz, Pablo Cruz-Hernández, Pablo Valenzuela, and Javier Hernández

Inventory, outcrop characterization and numerical asessement for a field class and geoconservation purpose on the Leba EN280 road (Huila Plateau, SW Angola)
Anabela Ramos and Fernando C. Lopes

Maps of the representing geomorphosites of the geomorphological units of the Caminhos dos Cânions do Sul Geopark, Brazil
Yasmim Rizzolli Fontana dos Santos, Maria Carolina Villaça Gomes, Jairo Valdati, and Thales Vargas Furtado
Geoeducation based on the geoheritage of the Caminho dos Caniões do Sul Geopark – Southern Brazil
Thales Vargas Furtado, Jairo Valdati, Maria Carolina Villaça Gomes, and Yasmim Rizzolli Fontana dos Santos

Cultural heritage as geoheritage at the Caminhos dos Cânions do Sul Geopark, Southern Brazil
Jairo Valdati, Maria Carolina Villaça Gomes, Yasmim Rizzolli Fontana dos Santos, and Thales Vargas Furtado

Ecogeomorphology and human use description of the geosites included in the Andalusian Geoconservation Inventory from the Subbéticas Natural Park and Geopark (Spain)
Mario Menjíbar-Romero and Juan F. Martinez-Murillo

The geodiversity of the Abruzzo, Lazio, and Molise National Park (Central Italy)
Gianluca Esposito, Daniela D’Amico, Cinzia Sulli, Vania Mancinelli, Giorgio Paglia, Luciano Sammarone, and Enrico Miccadei

Geomorphological survey and mapping of the Giardini Botanici Hanbury and related Capo Mortola marine protected area (Liguria, Italy)
Andrea Ferrando, Paola Coratza, Mauro Giorgio Mariotti, and Francesco Faccini
ICG2022-25  **Planetary Geomorphology**  
Conveners: Frances E. G. Butcher, David A. Vaz

**Orals**  
Thu, 15 Sep, 17:00–19:00 | Room Sala Sofia-C2B

**Chairpersons:** David A. Vaz, Susan Conway

17:00–17:05  
*Welcome and Introduction*

17:05–17:20 | ICG2022-700  
**Sedimentary mass balance modelling of the Jezero crater fluvio-deltaic system**  
*David C. A. Silva*, David A. Vaz, Gaetano Di Achille, and Laetitia Le Deit

17:20–17:35 | ICG2022-574  
**Identification and interpretation of morphological evidence associated with fluvial-marine environments on Mars**  
*Francisco Rodrigues*, Eusébio Reis, and Pedro Machado

17:35–17:50 | ICG2022-402  
**Landscape Evolution of Kasei Valles**  
Deniz Yazici, *Cengiz Yildirim*, and Tolga Gorum

17:50–18:05 | ICG2022-139  
**Project RED: A challenging student project on space sciences and planetary geology**  
*Carlotta Parenti*, Massimiliano Cadei, Cecilia Fabbiani, Fabio Malagutti, and Sofia Rossi

18:05–18:10  
*Short Break*

18:10–18:25 | ICG2022-186  
**Martian Pit Shadow Extractor (MAPS): Determining the Apparent Depths of Martian Pits from the Morphology of their Shadows**  
*Daniel Le Corre*, Nigel Mason, Jeronimo Bernard-Salas, David Mary, and Nick Cox

18:25–18:40 | ICG2022-339  
**The morphology of glacier-associated layered deposits on Mars**  
*Susan Conway*, Frances Butcher, Anna Grau Galofre, and Axel Noblet

18:40–18:55 | ICG2022-282  
**Relationship between thermal-contraction polygons and substrate properties on Mars**  
Meven Philippe, Susan J. Conway, Richard J. Soare, and Lauren E. McKeown

18:55–19:00  
*Wrap-up and close*
Other Sessions

IAG Working Groups
ICG2022-SE7 - DENUCHANGE working group business meeting
Convener: Achim A. Beylich
Fri, 16 Sep, 09:00–10:30 | Room Sala Inês de Castro-C1E

Scientific Journals
ICG2022-SE8
Meet the Editor: Nature Sustainability
Convener: Stephanie Olen
Thu, 15 Sep, 14:30–16:30 | Room Sala Inês de Castro-C1E

ICG2022-SE9
Journal of Geophysical Research: Earth Surface author/reviewer workshop
Conveners: Liran Goren, Kristen Cook
Fri, 16 Sep, 14:30–16:30 | Room Sala Inês de Castro-C1E
Have a great conference!