



Photo by Sérgio Brito

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)

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- **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)
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- **João FORTE** - Centre of Geographical Studies (University of Lisbon)
- **Ricardo GARCIA** - Institute of Geography and Spatial Planning (University of Lisbon)
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- **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 SANTOS** – 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)

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	Selma CASTRO	Zbigniew ZWOLIŃSKI
	Sérgio OLIVEIRA	

**ICG2022 – 10th IAG International
Conference on Geomorphology**

Program by Thematic Session, Day & Time



**10th IAG INTERNATIONAL
CONFERENCE ON GEOMORPHOLOGY**
COIMBRA – PORTUGAL
12-16 September 2022
«GEOMORPHOLOGY AND GLOBAL CHANGE»

Thematic Schedule

	Monday 12 September	Tuesday 13 September	Wednesday 14 September	Thursday 15 September	Friday 16 September	Saturday 17 September					
08:00 - 08:30	Registration										
08:30 - 09:00											
09:00 - 09:30	Opening Ceremony and Conference	Parallel Sessions	One-day mid-conference field trips	Parallel Sessions		Beginning of Post-Conference field trips Beginning of Intensive Training Course for Young Geomorphologists					
09:30 - 10:00				Parallel Sessions							
10:00 - 10:30	Coffee Break and Poster Session			Coffee Break and Poster Session							
10:30 - 11:00	1 st IAG General Assembly	Parallel Sessions		Parallel Sessions	2 nd IAG General Assembly & APGeom General Assembly						
11:00 - 11:30					Parallel Sessions						
11:30 - 12:00	Lunch Break			Lunch Break							
12:00 - 12:30	Lunch Break			Lunch Break							
12:30 - 13:00	Lunch Break			Lunch Break							
13:00 - 13:30	Lunch Break			Lunch Break							
13:30 - 14:00	Lunch Break			Lunch Break							
14:00 - 14:30	Lunch Break			Lunch Break							
14:30 - 15:00	Parallel Sessions	Parallel Sessions		Parallel Sessions	Parallel Sessions						
15:00 - 15:30							Parallel Sessions	Parallel Sessions			
15:30 - 16:00	Parallel Sessions	Parallel Sessions		Parallel Sessions	Parallel Sessions						
16:00 - 16:30							Parallel Sessions	Parallel Sessions	Parallel Sessions	Parallel Sessions	
16:30 - 17:00	Coffee Break and Poster Session			Coffee Break and Poster Session							
17:00 - 17:30	Parallel Sessions & 1 st IAG Council Meeting	Parallel Sessions		Parallel Sessions	Parallel Sessions & 2 nd IAG Council Meeting		Closing Conference and Ceremony				
17:30 - 18:00			Parallel Sessions			Parallel Sessions		Parallel Sessions			
18:00 - 18:30									Parallel Sessions	Parallel Sessions	Parallel Sessions
18:30 - 19:00											
19:00 - 20:00	>Welcome Cocktail	Social Meeting									
20:00 - 22:00			Conference Dinner								

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 ^{36}Cl 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 ^{10}Be 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 Uidzejiin 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, Juilson 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 ^{10}Be -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

18:30–18:45 | ICG2022-485

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, Giovanni Rodriguez, and Sebastián Marulanda

18:45–19:00 | ICG2022-740

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, Victor 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 Žebre, 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

Geomorphological 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 Udegbumam Ayadiuno, **Dominic Chukwuka Ndulue**, and Arinze Tagbo Mozie

Lunch break

Geomorphological 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

14:45–15:00 | ICG2022-536

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

15:00–15:15 | ICG2022-664

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

15:15–15:30 | ICG2022-207

Sentinel 2a in mountain landscape mapping – region of mountainous Croatia

Valerija Butorac, Andrija Krtalić, and Nenad Buzjak

15:30–15:45 | ICG2022-264

Relief mapping to best management practices placement purpose: an evaluation of different Digital Elevation Models

Fábio Luiz Macao Campos and André Luiz Nascentes Coelho

15:45–16:00 | ICG2022-367

Geomorphological map of Greece

Efthimios Karymbalis, **Konstantinos Tsanakas**, Diamantina Griva, Dimitrios-Vasileios Batzakis, and Kanella Valkanou

16:00–16:15 | ICG2022-483

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

16:15–16:30 | ICG2022-436

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 Porębna, 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 through 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

P8|ICG2022-431

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

P9|ICG2022-460

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

P10|ICG2022-484

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

P11|ICG2022-487

Water erosion modeling using the SIMWE (Simulated of Water Erosion)
(withdrawn)

Evandro Daniel, Bianca Carvalho Vieira, and Tiago Damas Martins

P12|ICG2022-488

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

P13|ICG2022-502

Identification of karst depressions through Digital Elevation Models and high resolution satellite images

Ana Amaral, Luis Cherem, Renata Momoli, and Pâmela Assis

P14|ICG2022-519

On point cloud analysis for geomorphologic and morphostructural mapping

Marco Cunha, Fernando Lopes, and Pedro Dinis

P15|ICG2022-600

Earth observation from AHS (Airborne Hyperspectral Scanner) data: spectral response of landforms

Eduardo García-Meléndez, Montserrat Ferrer-Julià, Gonzalo Frías, Elena Colmenero-Hidalgo, Antonio Espin de Gea, Mónica Reyes, Francisca Carreño, Juncal A. Cruz, Arturo Bascones, and Inés Pereira

P16|ICG2022-620

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 Bascones, Sara Alcalde-Aparicio, and Inés Pereira

P17|ICG2022-667

Assessment of current and future soil erosion risk in Romania

Cristian Valeriu Patriche, Rosca Bogdan, Radu Gabriel Pirnau, and Ionut Vasiliniuc

P18|ICG2022-668

Using GIS in geomorphometric research: examples from north and central regions of Portugal

Rui Ferreira and Luca Dimuccio

P19|ICG2022-688

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

DENUCHANGE 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

15:00–15:15 | ICG2022-123

An investigation into the threshold of sediment motion, in two non-uniform English gravel-bed rivers

Amelia Remers, George Heritage, and Neil Entwistle

15:15–15:30 | ICG2022-167

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

15:30–15:45 | ICG2022-459

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

15:45–16:00 | ICG2022-514

Predicting rill erosion due to extreme rainfall events on a small hillslope in Spain using the Landscape Evolution Model (LEM)

Antonio Minervino Amodio, Pietro P.C. Aucelli, Dario Gioia, Saskia Keesstra, Carmen M. Roskopf, and Artemi Cerda

16:00–16:15 | ICG2022-204

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

16:15–16:30 | ICG2022-223

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 Vandenbergh, and Huayu Lu

Coffee break and poster session

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

17:00–17:15 | ICG2022-565

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

17:15–17:30 | ICG2022-689

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

P22|ICG2022-231

Morphological changes due to a high-magnitude flood in a steep Andean stream

Luca Mao and Ricardo Carrillo

P23|ICG2022-537

Dynamics of scree slopes in forested environments: processes, modelling, and Holocene evolution

Daniel Germain and Ludwig Stabile-Caillé

P24|ICG2022-461

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

P25|ICG2022-641

Anthropogenic-enhanced erosion following the Neolithic Revolution in the Southern Levant

(withdrawn)

Nicolas Waldmann, Yin Lu, Dani Nadel, and Shmuel Marco

P26|ICG2022-55

Combining morphological and sedimentological investigation with χ index and Gilbert metrics for analysis of drainage rearrangement and divide migration in a plateau region

Maíra Oneda Dal Pai, André Augusto Rodrigues Salgado, Michael Vinicius de Sordi, Osmar Abílio de Carvalho Junior, and Eduardo Vedor de Paula

P27|ICG2022-566

Boundary conditions of barchans development on a tideless sand beach

Maciej Dłużewski, Joanna Oliwia Tomczak, and Joanna Rotnicka-Dłużewska

P28|ICG2022-232

The central Alentejo plateaus: a review of the regional relief units

António Martins, Noel Moreira, António Araújo, and Diamantino Pereira

P29|ICG2022-270

The landscape in environmental impact assessments of wind farms in Rio Grande do Sul, Brazil

Andréia Nunes and Roberto Verdum

P30|ICG2022-289

Landscape and rice culture of the São Gonçalo Channel Plain (Rio Grande do Sul - Brazil)

Karla Cassiano and Roberto Verdum

P31|ICG2022-723

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

P32|ICG2022-387

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

José Oliveira, Leonardo Santos, and Lionel Siame

P33|ICG2022-695

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 Santis, Giovanni Scardino, Giovanni Scicchitano, Jose Eugenio Ortiz, Yolanda Sánchez-Palencia, and Massimo Angelo Caldara

09:30–09:45 | ICG2022-149

Geomorphic 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 Grígolo, 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 Scapoza, 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

Geological controls

12:00–12:15 | ICG2022-141

Large landslides are concentrated along Patagonian Ice Sheet margin

Michal 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, Vít 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 Morino, 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

Răzvan Popescu, Simon Filhol, Bernd Etzelmüller, Ionuț Șandric, Alin Pleșoianu, Marina Vîrghileanu, Ionuț Săvulescu, Mirela Vasile, Nicolae Cruceru, Alfred Vespremeanu-Stroe, Sebastian Westermann, Flavius Sîrbu, Alexandru Onaca, Bogdan Mihai, and Alexandru Nedelea

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. Górska and Barbara Woronko

12:00–12:15 | ICG2022-542

Derivation of palaeo-air temperature conditions from past periglacial features

Tomáš Uxa and Marek Křížek

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

14:45–15:00 | ICG2022-315

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 Rodríguez-Rodríguez, Alexandre Poiraud, Irene Schimmelpfennig, Régis Braucher, Vincent Jomelli, Olivier Bourgeois, and Johannes Steiger

15:00–15:15 | ICG2022-39

Cosmogenic ^{36}Cl glacial chronology and ice-flow modelling (PISM) of Aladağ and Karanfil Mountains, Central Taurus Range, Turkey

Attila Ciner, Mehmet Akif Sarıkaya, Oğuzhan Köse, Adem Candaş, Cengiz Yıldırım, and Klaus Wilcken

15:15–15:30 | ICG2022-605

On the age and extent of the Serra da Peneda glaciation, NW Portugal

Paulo Pereira, Steven Binnie, Tibor Dunai, Renato Henriques, and Diamantino Pereira

15:30–15:45 | ICG2022-432

New insights into the Last Glacial Maximum in the Maritime Alps from paleoglacier reconstructions and ^{10}Be surface exposure dating

Lukas Rettig, Sarah Kamleitner, Susan Ivy-Ochs, Giovanni Monegato, Paolo Mozzi, Adriano Ribolini, Brice R. Rea, Lucy Ashpitel, and Matteo Spagnolo

15:45–16:00 | ICG2022-506

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

16:00–16:15 | ICG2022-630

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

16:15–16:30 | ICG2022-59

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

17:00–17:15 | ICG2022-428

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 Garcia-Oteyza

17:15–17:30 | ICG2022-554

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

17:30–17:45 | ICG2022-157

Geomorphological constraints for tropical glacier retreat description and modelling: the MOTICE project in Nevado Coropuna and Quelcaya icecaps (Perú).

Ramón Pellitero, 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

17:45–18:00 | ICG2022-438

Glaciers and Palaeoclimatic Reconstructions in the Changme Khangpu Basin, Eastern Himalayas, INDIA

Manasi Debnath, Milap Chand Sharma, Hiambok Jones Syiemlieh, and Arindam Chowdhury

18:00–18:15 | ICG2022-19

Glacial Lakes in the Chhomo Chhu Watershed (Sikkim Himalaya, India): Inventory, Classification, Evolution, and Potential GLOFs Assessment

Arindam Chowdhury, Sunil Kumar De, Milap Chand Sharma, and Manasi Debnath

18:15–18:30 | ICG2022-112

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

18:30–19:00 Discussion

Orals:

Fri, 16 Sep | Room Sala Mondego-C2A

Chairpersons: Barbara Woronko, Gonçalo Vieira
Periglacial Geomorphology - 3

09:00–09:15 | ICG2022-478

The Rock Glacier Inventories and Kinematics (RGIK) Action Group: status and future directions

Sebastián Vivero and Cécile Pellet

09:15–09:30 | ICG2022-321

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

09:30–09:45 | ICG2022-535

New observations on the kinematics 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

09:45–10:00 | ICG2022-3

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

Stefan Winkler

10:00–10:15 | ICG2022-124

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 Alvaro Gómez Gutiérrez

10:15–10:30 | ICG2022-290

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 Vermoux

Coffee break and poster session

Chairpersons: Greg Wiles, Jorge Rabassa
Glacial Geomorphology - 3

14:30–14:45 | ICG2022-449

Calcite cementation as a result of subglacial processes - the Saalian ice-sheet case study

Barbara Woronko, Karolina Ulbin, Katarzyna Skolasińska, Joanna Miroslaw-Grabowska, Małgorzata Pisarska-Jamroży, Martyna Górka, and Karina Apolinarska

14:45–15:00 | ICG2022-197

Glacial curvilinearities (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

15:00–15:15 | ICG2022-70

Geomorphology of subglacial ribbed-Rogen moraines of Early Pleistocene age, southernmost Patagonia, Argentina

Jorge Rabassa, Bettina Ercolano, and Pau Montero Estaña

15:15–15:30 | ICG2022-56

Types of glacial outburst flood outlets differentiated by englacial feeding systems at the end of the Weichselian glaciation (NE Poland)

Piotr Weckwerth, Edyta Kalińska, Wojciech Wysota, Arkadiusz Krawiec, and Marek Chabowski

15:30–15:45 | ICG2022-177

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

15:45–16:00 | ICG2022-325

Characterizing the role of supraglacial debris thickness variability on underlying ice ablation

Calvin Beck, Lindsey Nicholson, Anna Wirbel, and Thorsten Simon

16:00–16:15 | ICG2022-347

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

Periglacial Geomorphology - Posters

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

Qiqi Ma and **Takashi Oguchi**

P38 | ICG2022-295

Variability of the thermal regime of the frozen islands in the Lena floodplain, Yakutia

Francois Costard, Emmanuèle 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

Paweł Kroh and Piotr Dolnicki

P42|ICG2022-61

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

P43|ICG2022-471

New Late Quaternary Glaciation Areas in Western Taurus (SW Turkey)

Cihan Bayrakdar, Zeynel Çilğın, Ergin Canpolat, and Ferhat Keserci

P44 |ICG2022-585

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

P45|ICG2022-608

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

P46|ICG2022-697

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

P47|ICG2022-583

Holocene glacial oscillations in the Tyroler Valley, NE Greenland

Julia Nieves Garcia de Oteyza de Ciria, Marc Oliva, David Palacios, José María Fernández-Fernández, Marcelo Fernandes, Irene Schimmelpfennig, and Alicia Medialdea

P48|ICG2022-609

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 Tyrrhenian 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-Petricioli, 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

Francisco Gutiérrez, Mehdi Zarei, Hosein Deirnik, Maedeh Rahimi, and Alicia Medialdea

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 Acigöl 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

Poster

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**

P30|ICG2022-661

Evidences of Late Quaternary Neo-Tectonics at Kirtinagar in Alaknanda Valley of Garhwal Himalaya, India

Devi Datt Chauniyal

P31|ICG2022-366

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

P32|ICG2022-517

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

Jongmin Byun

P33|ICG2022-498

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

P34|ICG2022-150

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

P35|ICG2022-219

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

Rafael Palaiopanis and Nikolaos Zouros

P36|ICG2022-477

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

P37|ICG2022-546

Mass wasting processes within the Glafkos gorge, Achaia, Western Greece

Aggelos-Leandros Vgenopoulos, Ioannis Koukouvelas, George D. Bathrellos, Konstantinos Nikolakopoulos, and Hariklia D. Skilodimou

P38|ICG2022-555

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

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

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**

15:30–15:45 | ICG2022-335

Microslag as a stratigraphic tracer to quantify floodplain processes during the last centuries

Geoffrey Houbrechts, Tomasz Kalicki, Paweł Przepióra, Bastiaan Notebaert, and François Petit

15:45–16:00 | ICG2022-420

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

16:00–16:15 | ICG2022-497

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 Mauricio Parra

16:15–16:30 | ICG2022-610

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 Alves da Silva, Nelson Ferreira Fernandes, Carolina Coelho do Vale, and Lucia Maria da Silva

Coffee break and poster session

Chairpersons: Frédéric Liébault, Arved Schwendel

17:00–17:15 | ICG2022-634

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

17:15–17:30 | ICG2022-650

Chronology and dynamics of fluvial style transformation in the Younger Dryas – Holocene transition (lower San River, SE Poland)

Piotr Gębica, Anna Michno², Mateusz Sobucki, Agnieszka Wacnik, and Sławomir Superson

17:30–17:45 | ICG2022-710

Geomorphological adjustments in a partial avulsion: the Peixe River, Brazil

Eduardo Morais and Otávio Cristiano Montanher

17:45–18:00 | ICG2022-738

Origin of the Yellow River

Baotian Pan, Zhenbo Hu, and David Bridgland

Remote sensing and fluvial geomorphology

18:00–18:15 | ICG2022-15

Towards a Global Assessment of Bar Push Versus Bank Pull using Remote Sensing and Cloud Computing.

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 Wyzga

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

Biogeomorphology of rivers

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 Poepl, 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 Poledníková, 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 Scordio

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 | Poster area

Chairpersons: Frédéric Liébault, Vittoria Scorpio

P42 | ICG2022-579

Monitoring channel response and recovery of ephemeral Mediterranean streams using diachronic orthophotography analysis with machine learning (Rambla de Cervera, Spain)

Maria Pilar Rabanaque, Vanesa Martínez-Fernández, Mikel Calle, Carles Sanchis-Ibor, Francisca Segura-Beltrán, Yolanda Sánchez-Moya, and Gerardo Benito

P43 | ICG2022-41

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

Estimating bedload in a poorly-gauged mountain river: Coto river (Cantabrian Mountains, NW Iberian Peninsula)

Daniel Vázquez-Tarrió, Rosana Menéndez-Duarte, and Raquel Martínez Álvarez

P45 | ICG2022-109

Drainage rearrangements in a semi-arid area: a case study on the Brazilian northern passive margin

Wesley Rodrigues and **André Salgado**

P46 | ICG2022-114

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

Flood events as geomorphic thresholds for river channel change

Dan Dumitriu

P48 | ICG2022-147

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

Frequency of Boulders Transport during Large Floods in Hyperarid Areas using Paleoflood 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)

Anastasiia 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 Scriciu, 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 Scrieciu, 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)

Rafał Krocak 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 Zieliński, Jacek Skurzyński, Marcin Krawczyk, Jerzy Raczek, 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 Goç Alves 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-Romaní, 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 Verdum**

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 Goç​alves 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 Tă​tui, 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 Lonč​ar, 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. Roskopf, 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 Aeminiun-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 Gwenaëlle Pennober

09:30–09:45 | ICG2022-662

**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

09:45–10:00 | ICG2022-712

**Optimizing CVI-based heuristic approach for regional coastal vulnerability assessment
in Sicily and 2000-2019 shoreline change calibration.**

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

10:00–10:15 | ICG2022-313

**Evolution of pocket beaches on the island of Hvar during the last 200 years (Croatia,
Eastern Adriatic Coast)**

Marin Mićunović and Sanja Faivre

10:15–10:30 Discussion

Coffee break and poster session

Chairperson: Carlos Loureiro

COASTAL AND MARINE PROCESSES - Block II Observation, reconstruction, and modelling

14:30–14:45 | ICG2022-327

**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

14:45–15:00 | ICG2022-13

**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

15:00–15:15 | ICG2022-475

**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

15:15–15:30 | ICG2022-241

**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)

Daive 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 Chirivì, 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 Polizel 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. Micallef, 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

P69|ICG2022-365

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

P70|ICG2022-237

*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

P71|ICG2022-383

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

P72|ICG2022-687

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

Léonard Sitou

P73|ICG2022-268

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. Roskopf

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, António Alves Silva, and Madalena Fonseca

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 Guimolaire 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 $^{26}\text{Al}/^{10}\text{Be}$ 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

Rogério 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 **Rogério 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 Fatimah 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 Garcia-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 Karrentische 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

16:15–16:30|ICG2022-54

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

17:00–17:15|ICG2022-304

*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

17:15–17:30|ICG2022-331

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

17:30–17:45|ICG2022-466

Proglacial Soil Formation in the Anthropocene: soil chronosequences in the Sub tropical Andes and Alps

Anais Zimmer and **Timothy Beach**

17:45–18:00|ICG2022-501

Soil evolution on Coastal Tablelands in northeastern Bahia, Brazil

Grace Alves, Matheus Figueiredo, Ilo Andrade, João Henrique Sousa, and Alisson Diniz

18:00–18:15|ICG2022-520

Chemical Weathering Indices for Fire-Impacted Soils

Gregory Pope and Jennifer Callanan

18:15–18:30|ICG2022-261

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 Panđa

18:30–18:45|ICG2022-578

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

Marissa Swart

18:45–19:00|ICG2022-691

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, Iliá 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

P75|ICG2022-707

Landscape analysis based on soil color in the windward slope of the Baturité Massif, northeastern Brazil

Jose Osmar Silva Neto, Larisse Freitas Soares, Vladia 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 Milledge, 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 Millot

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

P82|ICG2022-200

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, Virgínia 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, Virgínia 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 Rafeeqe, 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)

Olivier Dewitte, Arthur Depicker, Jean-Claude Maki Mateso, Charles Bielders, Axel Deijns, Stijn Dewaele, Gerard Govers, Liesbet Jacobs, Violet Kanyiginya, François Kervyn, Matthieu Kervyn, Désiré Kubwimana, Toussaint Mugaruka Bibentyo, Charles Nzolang, Pascal Sibomana, Ronald Twongyirwe, Matthias Vanmaercke, and Antoine Dille

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 geohydroecological 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 Steinholtsjökull 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)

Małgorzata 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

P83|ICG2022-78

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

P84|ICG2022-153

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

P85|ICG2022-307

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

P86|ICG2022-686

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

P87|ICG2022-714

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

P88

|ICG2022-430

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 Ramirez-Herrera, Néstor Corona, Héctor Nava, David Romero, Hamblet Torija, and Felipe Hernández Maguey

Landslide susceptibility, hazard and risk assessment

15:15–15:30 | ICG2022-305

Back-analysis of the Abbazia 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 Guimolaire 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

Sayantana 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, Valeriia 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

Poster

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

Attendance : Tue, 13 Sep, 10:45–11:00 | Poster area

Chairpersons: Ana Luiza Coelho-Netto, Tavares Alexandre Oliveira, Maria Carolina Villaça Gomes

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

Hydromorphological modelling of the September 9th 2018 flash flood event at Medieval Sta. María de Huerta Monastery (Soria, Spain). A detailed hazard analysis for flood risk mitigation proposal.

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

P96|ICG2022-311

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

P97|ICG2022-317

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

P98|ICG2022-338

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

P99|ICG2022-364

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

P100|ICG2022-397

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

P101|ICG2022-404

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

P102|ICG2022-433

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

P103|ICG2022-557

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

P104|ICG2022-563

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

P105|ICG2022-595

Contribution to a Suitable Rehabilitation of Rock Masses

Mónica Silva, Mário Quinta Ferreira, and Pedro Santarém

P106|ICG2022-607

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

P107|ICG2022-685

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

P108|ICG2022-690

Geotechnical characterization and slope stability evaluation of the gypsum quarry of Sogerela, Óbidos, Portugal

Renato Liscar, Mário Quinta-Ferreira, and Pedro Santarém Andrade

P109|ICG2022-716

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

P110|ICG2022-718

Predicting the unknown: using transfer learning techniques for landslide susceptibility modelling

Zhihao Wang, Jason Goetz, and Alexander Brenning

P111|ICG2022-719

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

P112|ICG2022-720

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 | ICG2022-727

Soil erosion after the 2017 forest fire of Braga (Portugal)

António Vieira, António 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 geindicator 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 Bechedahl, 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 Bielders, Olivier Dewitte, Aurélia 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

P116|ICG2022-527

Urban geomorphology of Cagliari city (Italy)

Valentino Demurtas, Orrù Paolo Emanuele, Melis Rita, and Giacomo Deiana

P117|ICG2022-391

The contribution of geomorphological processes to urban landscape modification, Poznan, Poland

Małgorzata Mazurek, Jarosław Jasiewicz, Zbigniew Zwoliński, Iwona Hildebrandt-Radke, and Mirosław Makohonienko

P118|ICG2022-602

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

Emmanuel Reynard

P119|ICG2022-632

The heterogeneity of the hydromorphological responses of a small peri-urban river to the urbanization of its basin

Lucile de Milleville, Frederic Gob, Laurent Lespez, and Evelyne Tales

P120|ICG2022-653

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

P121|ICG2022-510

Sustainable metropolis development: a challenge for urban geomorphology research

Laura Melelli, Pierluigi Brandolini, Maurizio Del Monte, Alessia Pica, and Emmanuel Reynard

P122|ICG2022-469

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

Cleide Rodrigues

P123|ICG2022-214

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, Aurélia Hubert-Ferrari, and Matthias Vanmaercke

P124|ICG2022-354

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 Subneolithic 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 Mothulatshipi, 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 Leónidas, 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 (Wanar).

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, Brahimsamba Bomou, Kévin Jacq, Maxime Debret, Laurent Mattio, Lionel Darras, Christophe Benech, Quentin Vitale, Adèle Bertini, Marco Leporatti-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)

Andres Diez-Herrero, Rosa M. Mateos-Ruiz, Daniel Vazquez-Tarrío, Antonio Lopez-Marcos, and Francisco J. Brao-Gonzalez

P132|ICG2022-360

Holocene evolution of coastal dunes in western France: regional reconstruction from archaeological and historical data

Aneta Gorczynska, **Pierre Stephan**, Yvan Pailler, Clément Nicolas, Aurélie Penaud, Ophélie David, Muriel Vidal, and Bernard Le Gall

P133|ICG2022-442

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

P134|ICG2022-534

A geoarchaeological perspective on the Holocene dynamics of Someșul Mic floodplain (Transylvanian Basin, Romania)

Aurel Persoiu and **Ioana Persoiu**

P135|ICG2022-635

Emergency Geoarchaeology in an urban context

Hugo Gomes, Cristiana Ferreira, Rita Ferreira, Pierluigi Rosina, and Virginia Lattao

P136|ICG2022-499

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

Yuan Wang and **Takashi Oguchi**

P137|ICG2022-651

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 Pöpl, 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 Pöpl, 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

18:45–19:00 | ICG2022-733

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 Pöppel, Isabel Paiva

P138 | ICG2022-415

Assessing sediment connectivity on agricultural hillslopes using sediment transport modeling and network analysis

John Edward Perez, Ronald Poeppel, 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 Llana, Estela Nadal-Romero, Makki Khorchani, Melani Cortijos-López, Javier Zabalza, and Teodoro Lasanta

P145|ICG2022-637

Marginal dikes promote disconnection between slopes and artificial channels: Study case in Central Brazil.

Sílvia Rodrigues, Gelze Rodrigues, and Renato Silva

P146|ICG2022-42

Natural and mining legacies in Nalón river floodplain deposits (NW Iberian Peninsula)

Rosana Menendez-Duarte, Daniel Vazquez-Tarrio, Elena Fernandez-Iglesias, Pelayo Tomillo, Isabel Suarez-Ruiz, Eduardo Rodriguez-Valdes, and Alicia Medialdea

P147|ICG2022-242

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

P148|ICG2022-276

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

P149|ICG2022-363

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

P150|ICG2022-624

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, 10:30–10:45

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 Lugerì, **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 Piacentini, Umberto Di Salvatore, Gianclemente Berardini, Antonio De Ioris, Luca Roselli, and Enrico Miccadei

18:45–19:00 | ICG2022-722

Application of a Geobiodiversity Index to Natural Protected Areas in Northern Portugal

Antonio Vieira, Gabriella Emily 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 Oueddou, 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

Learnig 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 Workinggroup 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 Miccadei, 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 Oueddou

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

P153|ICG2022-136

Geodiversity and valorization of abiotic objects in the Tuchola Forest Biosphere Reserve (N Poland)

Izabela Jamorska, Szymon Belzyt, Włodzimierz Wysocki, and Arkadiusz Krawiec

P154|ICG2022-178

Women representation in UNESCO Global Geoparks of Portugal

Luiza Friedrich Garcia and Maria Helena Henriques

P155|ICG2022-194

Impacts, vulnerability and resilience of Geoheritage to Climate Change in the four Canary Islands National Parks (Spain)

Juana Vegas, Eleuterio Baeza, Ana Cabrera, **Andres Diez-Herrero**, Nicolas Ferrer, Ines Galindo, Julio Garrote, Ruth Gonzalez-Laguna, Raquel Herrera, Javier Lario, Gonzalo Lozano, Alvaro Marquez, Esther Martin-Gonzalez, Pablo L. Mayer, M. Angeles Perucha, Miguel A. Rodriguez-Pascua, Carmen Romero, and Nieves Sanchez

P156|ICG2022-195

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

P157|ICG2022-293

A new UNESCO Global Geopark at the southern Dead Sea, Jordan – first concepts and hazard monitoring

Djamil Al-Halbouni, Osama AlRabayah, and Lars Rüpke

P158|ICG2022-451

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

P159|ICG2022-482

Inventory, outcrop characterization and numerical assesement for a field class and geoconservation purpose on the Leba EN280 road (Huíla Plateau, SW Angola)

Anabela Ramos and Fernando C. Lopes

P160|ICG2022-677

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

P161|ICG2022-681

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

P162|ICG2022-682

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

P163|ICG2022-693

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

P164|ICG2022-392

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

P165|ICG2022-463

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

