

ANNUAL REPORT OF IGI–YOUNG GEOMORPHOLOGISTS FORUM

This annual report presents the activities done by the Indian Institute of Geomorphologists (IGI)–Young Geomorphologists Forum (YGF) during 2021. The forum, in its second year after formation, organised the 2nd Intensive Training Programme for The Young Geomorphologists during 1–2 November 2021, besides conducting a couple of Young Geomorphologists competitions during two successive IGI conferences (January 2021 and December 2021).

2nd INTENSIVE TRAINING PROGRAMME FOR THE YOUNG GEOMORPHOLOGISTS



ONLINE EVENT

Organiser: **IGI-Young Geomorphologists Forum**

Event Dates: **1-2 November 2021**

Conveners: **Dr. Sayantan Das and Dr. Suvendu Roy**

The Programme:

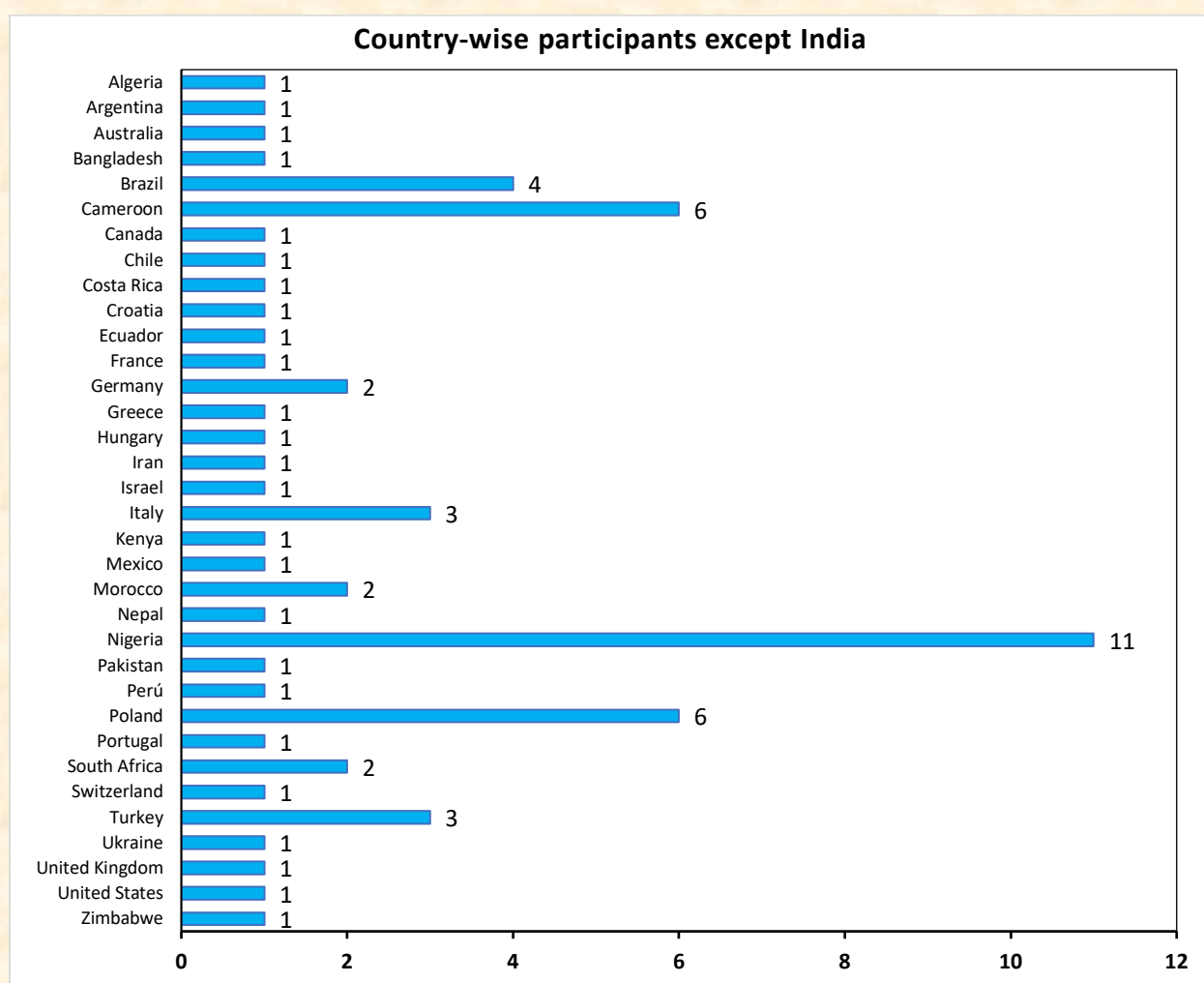
The 1st edition of this programme was held in Kolkata, India, during March 2020 and it was comprised of lecture series, laboratory- and field-based exercises, and field visit. For its 2nd edition (2021), the IGI–YGF organized this event in the online mode, considering the restrictions pertained to the COVID-19 outbreak. Dr. Sayantan Das (*President, IGI-YGF* and Assistant Professor, Dum Dum Motijheel College, West Bengal State University) and Dr. Suvendu Roy (*Vice-President, IGI-YGF* and Assistant Professor, Kalipada Ghosh Tarai Mahavidyalaya, University of North Bengal) were the Conveners, and Dr. Kapil Ghosh (Assistant Professor, Diamond Harbour Womens' University) was the Organising Secretary for the event. Like its 1st edition, the programme was organised with the auspices of the International Association of Geomorphologists (IAG).

The main objectives of this training programme were:

- Promotion and popularization of geomorphology-based research work.
- Guiding young researchers to carry out geomorphological research in the field and laboratory.

Programme Participants:

As the 2nd Intensive Training Programme was held in the online platform, participants from different parts of the world had registered for this event. This event hosted **171** Indian participants from 15 states and union territories, and **64** non-Indian participants from 34 countries of 6 continents (**24** from Africa, **19** from Europe, **8** from Asia, **8** from South America, **4** from North America, and **1** from Oceania). Altogether, **89** universities and organisations were represented (**59** from India, **30** from outside India). The following graph gives the details of the country-wise representations from outside India.



Prepared by: Dr. Suvendu Roy (Co-convener, IGI-YGF 2021)

Mr. Pritam Kumar Santra (Member, Organising Committee, IGI-YGF 2021)

Sessions:

The opening session of the event was graced by the presence of the Inaugurator—Prof. Sunil Kumar De (*Vice-President, IAG* and Professor, Department of Geography, North-Eastern Hill University, Shillong), and the Guest of Honour—Prof. A.R.Siddiqui (*Secretary General, IGI*

and Professor, Department of Geography, Allahabad University). They welcomed and addressed the participants during the opening session. Prof. D.D. Chauniyal (*President, IGI* and Professor, Department of Geography, Doon University) and Prof. Sunando Bandyopadhyay (*Vice-President, IGI* and Professor, Department of Geography, University of Calcutta) were also present during the inaugural session. The programme was formally introduced by the convener—Dr. Sayantan Das (*President, IGI-YGF*).

IGI-Young Geomorphologists Forum organises

Andhra Coast, Bay of Bengal

2nd Intensive Training Programme for THE YOUNG GEOMORPHOLOGISTS
1-2 November, 2021

Online Event

Ganga River, Apex of the Delta

Zaskar Range, Trans-Himalayas

Programme overview:

- Career in Geomorphology
- Paleoclimate and fluvial response
- Geochronology
- Process-based studies in glacial landscapes
- UAV-based mapping
- Field experiences in extreme environment

TO BE INAUGURATED BY

Prof. Sunil Kumar De
(Vice-President, International Association of Geomorphologists-IGI)
Professor and Former Head
Department of Geography
North-Eastern Hill University, India

GUEST OF HONOUR

Prof. Azizur Rahman Siddiqui
(Secretary General, Indian Institute of Geomorphologists-IGI)
Professor and Head
Department of Geography
University of Allahabad, India

SPEAKERS: DAY 1

Prof. Viswas Kale
(Former President, IGI)
Former Professor and Head
Department of Geography
Savitribai Phule Pune University, India

Prof. Milap Chand Sharma
Professor
Centre for the Study of Regional Development
Jawahar Lal Nehru University, India

Dr. Balen Basu
Managing Director
Opsis System Pvt Ltd, India

Dr. Sujay Bandyopadhyay
(IAG Alumnus)
Assistant Professor
Department of Geography
Kazi Nazrul University, India

SPEAKERS: DAY 2

Dr. Paraskevi V. Nomikou
Associate Professor of
Geological Oceanography
Dept of Geology and Geo-Environment
University of Athens, Greece

Dr. Adolfo Quesada-Román
(President, Costa Rican Association of Geomorphologists and IAG Alumnus)
Associate Professor
Escuela de Geografía
Universidad de Costa Rica, Costa Rica

Dr. Vittoria Vandelli
(IAG Alumna)
Research Assistant
Department of Chemical and
Geological Science
University of Modena and Reggio
Emilia, Italy

Dr. Fran Domazetović
(IAG Alumnus)
Postdoctoral Researcher
Department of Geography
University of Zadar, Croatia


Programme flyer

In the closing session of the event, Dr. Kalyan Rudra (Chairman, West Bengal Pollution Control Board, India), and Prof. Lakshminarayan Satpati (Director, UGC-Human Resource Development Centre, University of Calcutta, Kolkata) were present as the guests.

The programme had the following sub-themes:

- *Career in Geomorphology*
- *Paleoclimate and fluvial response*
- *Geochronology*
- *Process-based studies in glacial landscapes*
- *UAV-based mapping*
- *Field experiences in extreme environment*

Altogether, *six* lectures, and *two* software-based hands-on exercise sessions were conducted during the programme.

 	
2 nd INTENSIVE TRAINING PROGRAMME FOR THE YOUNG GEOMORPHOLOGISTS	
Day 1: 01 November 2021 (Monday)	10:30 – 17:30 (Indian Standard Time)
Inaugural Session	
10 30 :	Introduction to the Programme Dr. Sayantan Das (Dum Dum Motijheel College, West Bengal State University, India) Convener, Young Geomorphologists Training Programme
10 40 :	Address by the Inaugurator Prof. Sunil Kumar De (North-Eastern Hill University, India) Vice President, International Association of Geomorphologists (IAG)
11 00 :	Address by the Guest of Honour Prof. A.R. Siddiqui (University of Allahabad, India) Secretary General, Indian Institute of Geomorphologists (IGI)
11 10 :	Address by Special Guest Prof. D.D. Chauniyal (Doon University, India) President, Indian Institute of Geomorphologists (IGI)
11 20 :	Vote of thanks Dr. Suvendu Roy (Kalipada Ghosh Tarai Mahavidyalaya, University of North Bengal, India) Co-convenor, Young Geomorphologists Training Programme
Technical Session 1A	
11 30 :	<i>Holocene paleoclimate and fluvial response in the Indian Peninsular rivers</i> Resource Person: Prof. Viswas Kale (Savitribai Phule Pune University, India)
12 30 :	<i>Fossil Landform Records for climate/event reconstruction in the Himalaya</i> Resource Person: Prof. Milap Chand Sharma (Jawaharlal Nehru University, India)
13 30 : It's Lunchtime!!	
Technical Session 1B	
14 15 :	<i>Use of UAV in Surface Model Generation</i> Resource Person: Dr. Balen Basu (Opsis System Pvt Ltd, India)
16 30 – :	<i>Dating the Quaternary sediments and landforms</i>
17 30 :	Resource Person: Dr. Sujay Bandyopadhyay (Kazi Nazrul University, India)
2 nd INTENSIVE TRAINING PROGRAMME FOR THE YOUNG GEOMORPHOLOGISTS	
Day 2: 02 November 2021 (Tuesday)	14:30 – 20:00 (Indian Standard Time)
Technical Session 2A	
14 30 :	<i>Geomorphological investigations along the Mediterranean Coasts: A case study from the Maltese Archipelago</i> Resource Person: Dr. Vittoria Vandelli (University of Modena and Reggio Emilia, Italy)
15 30 :	<i>Application of very high-resolution UAV mapping in geomorphology</i> Resource Person: Dr. Fran Domazetović (University of Zadar, Croatia)
16 30 : Coffee Break!!	
Technical Session 2B	
16 45 :	<i>Mapping the underwater geomorphological features using innovative technologies</i> Resource Person: Dr. Paraskevi V. Nomikou (University of Athens, Greece)
18 30 :	<i>Natural Hazards' field work in tropical environments of Costa Rica</i> Resource Person: Dr. Adolfo Quesada-Román (Universidad de Costa Rica, Costa Rica)
Valedictory Session	
19 30 – 20 00	
All given times are in UTC+5:30 Hours (Indian Standard Time)	
Google Meet link: meet.google.com/rrw-rmxw-ijh	
YouTube link: https://youtu.be/WSwmlrCO8gI	

Programme Schedule

Eminent Geomorphologists like Prof. Viswas Kale (*Former President, IGI* and former Professor, Department of Geography, Savitribai Phule Pune University, India), Prof. Milap Chand Sharma (Professor, Centre for the Study of Regional Development, Jawaharlal Nehru University, India), and Dr. Paraskevi V. Nomikou (Associate Professor of Geological Oceanography, Department of Geology and Geo-Environment, University of Athens, Greece) delivered lectures on topics in tune with the sub-themes. Dr. Balen Basu (Managing Director, Opsis System Pvt Ltd, India), the only resource person from the geospatial industry, steered a software-based session on the use of UAV in geoscience.

A major part of the lecture series was contributed by the young resource persons who have previously received the IAG grants (IAG Young Geomorphologists) for different conferences

across the world—Dr. Adolfo Quesada-Román (*President, Costa Rican Association of Geomorphologists* and Associate Professor, Escuela de Geografía, Universidad de Costa Rica, Costa Rica), Dr. Vittoria Vandelli (Research Assistant, Department of Chemical and Geological Science, University of Modena and Reggio Emilia, Italy), and Dr. Fran Domazetović (Postdoctoral Researcher, Department of Geography, University of Zadar, Croatia). Another IAG Young Geomorphologist, Dr. Sujay Bandyopadhyay, (Assistant Professor, Department of Geography, Kazi Nazrul University, India) conducted a software-based session on dating of Quaternary sediments.

On the first day of the event (1 November 2021), the resource persons were from India. Whereas, in the concluding day (2 November 2021), all resource persons had joined either from Europe or North America.

Support:

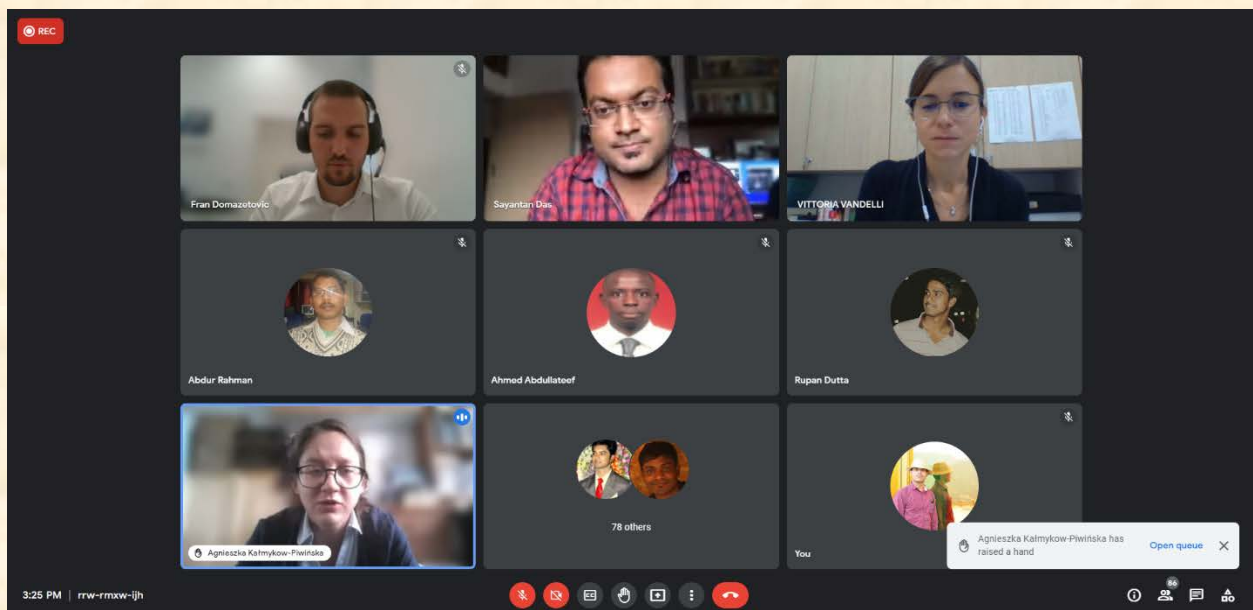
This training programme was organized under the tutelage of the Indian Institute of Geomorphologists (IGI), Allahabad. Besides, it received the auspices from the International Association of Geomorphologists (IAG). Prof. Sunil Kumar De provided financial support to the event organisers. Dr. Kapil Ghosh arranged the online platform for conducting the event and also helped to stream the live event through YouTube. The organisers have duly acknowledged the received support during the opening and closing sessions of the event.



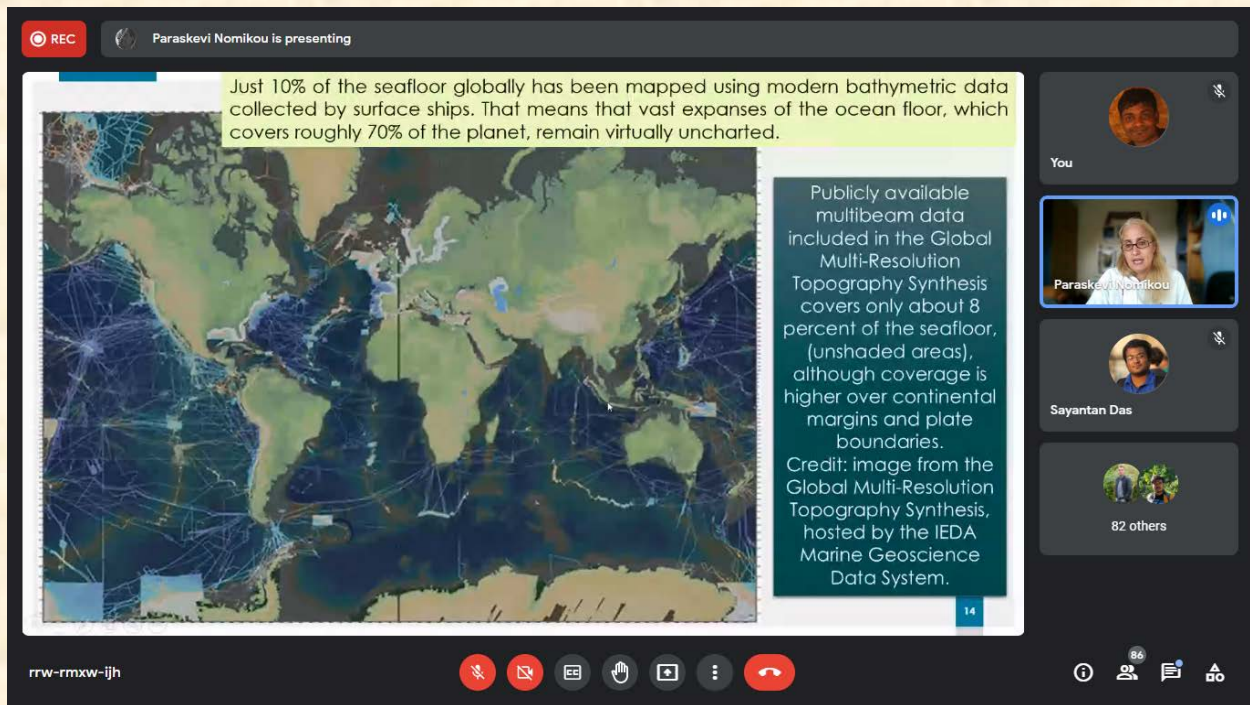
Selected screenshots from the IGI-YGF 2nd Intensive Training Programme



Prof. Milap Chand Sharma (Jawaharlal Nehru University, India) delivering his lecture on the glacial landscapes of the Himalayas. Date: 01.11.2021.



Dr. Fran Domazetović (University of Zadar, Croatia), and Dr. Vittoria Vandelli (University of Modena and Reggio Emilia, Italy) in the interactive session with the participants after their lecture. Date: 02.11.2021.



Dr. Paraskevi V. Nomikou (University of Athens, Greece) delivering her lecture on the mapping of the underwater geomorphological features. Date: 02.11.2021.



Dr. Kalyan Rudra (Guest of Honour, valedictory session) and Prof. Sunil Kumar De (Inaugurator, 2nd IGI-YGF Intensive Training Programme) during the closing ceremony. Date: 02.11.2021.

THE YOUNG GEOMORPHOLOGISTS COMPETITION: IGI CONFERENCES

The Young Geomorphologists competition is an annual event related to the best paper presented by the young geomorphologists below the age of 35 years during the IGI conference. This event is now conducted by the IGI-Young Geomorphologists Forum (YGF) and the IGI has dedicated an exclusive session for this since its inception.

The 32nd IGI conference, originally scheduled in 2020, was held in January 2021 (organised by West Bengal State University, India) due to some unavoidable circumstances. The Young Geomorphologists session was conducted by Dr. Shreya Bandyopadhyay (*IGI-YGF President*, 2020) and Dr. Sayantan Das (*IGI-YGF Vice-President*, 2020). In total, 11 papers were presented in the session related to various aspects of geomorphology. **Dr. Kopal Kumar** (Nowrosjee Wadia College, Pune, India) was awarded as the best paper presenter for her work on '*Rainfall Runoff Analysis of High Runoff Potential Watersheds using Antecedent Moisture Condition*'.

The 33rd IGI conference 2021 was held in December 2021 (organised by Allahabad University, India), where 8 papers were presented during the Young Geomorphologists competition. The session was conducted by Dr. Sayantan Das (*IGI-YGF President*, 2021) and Dr. Suvendu Roy (*IGI-YGF Vice-President*, 2021). **Mr. Arindam Chowdhury** (North-Eastern Hill University, Shillong, India) was awarded as the best young geomorphologist for his presentation on '*Unfolding the Glacier Dynamics in the Chhombo Chhu Watershed of Tista basin, the Sikkim Himalaya, India: Impacts of Local Topographic Forcing and Climate Variability*'.

During the valedictory session of IGI conference 2021, it was announced that **Dr. Kapil Ghosh** (Diamond Harbour Womens' University, India) would take over as the *President* of IGI-YGF in 2022, while **Dr. Aadil Manzoor Nanda** (University of Kashmir, India) would take the responsibility as the *Vice-President* of the forum in 2022.

