



IGU Commission on
Hazard and Risk



Programme

A two-day International Webinar on

INNOVATIONS IN DISASTER RISK REDUCTION: AIMING TOWARDS A RESILIENT SOCIETY

(10-11 September 2020)

Organised by

Department of Geography, Diamond Harbour Women's University

In collaboration with

IGU Commission on Hazard and Risk, International Geographical Union (IGU)

<http://dhwu.ac.in>

Programme

Inaugural Session

(10 September 2020, 11:00 a.m. to 12:00 p.m.)

Chief Patron:

Professor Anuradha Mukhopadhyay

Hon'ble Vice Chancellor

Diamond Harbour Women's University, West Bengal, India

Patron:

Dr. Md. Sayeedur Rahman

Registrar

Diamond Harbour Women's University, West Bengal, India

Chief Guest:

Dr. Srikumar Chattopadhyay

ICSSR National Fellow

Gulati Institute for Finance and Taxation, Thiruvananthapuram, India

Special Guest:

Professor Takashi Oguchi

Chair, Commission on Hazard and Risk, IGU

Convener:

Professor Sujit Mandal

Head, Dept. of Geography and Dean, Faculty of Science

Diamond Harbour Women's University, West Bengal, India

Platform: YouTube (live streaming Link: <https://youtu.be/aopVtf7vIU0>)

<i>Time</i>	<i>Programme</i>
11:00-11:05 a.m.	Welcome Address by Professor Sujit Mandal <i>Dean, Faculty of Science, Diamond Harbour Women's University</i>
11:05-11:10 a.m.	Inaugural Speech by Professor Anuradha Mukhopadhyay , <i>Hon'ble Vice Chancellor, Diamond Harbour Women's University</i>
11:10-11:15 a.m.	Introductory Note by Dr. Sayeedur Rahman <i>Registrar, Diamond Harbour Women's University</i>
11:15-11:30 a.m.	Well-wishing Note by Professor Takashi Oguchi , <i>Chair, Commission on Hazard and Risk, IGU</i> <i>Center for Spatial Information Science, The University of Tokyo, Japan</i>
11:30-11:55 a.m.	Key-note address by Dr. Srikumar Chattopadhyay <i>ICSSR National Fellow</i> Topic: <i>Building socio-ecological resilience for disaster risk reduction</i>
11:55-12:00 p.m.	Vote of thanks by Dr. Kapil Ghosh <i>Assistant Professor, Dept. of Geography, Diamond Harbour Women's University</i>

PLENARY SESSION - I

DAY ONE: 10th September, 2020 (12:00 p.m. – 02:30 p.m.) (IST)

Platform: YouTube (live streaming Link: <https://youtu.be/aopVtf7vIU0>)

Chairperson: Dr. Srikumar Chattopadhyay		Co-Chairperson: Prof. Sashanka Kr. Gayan	
Rapporteur: Mr. Rajesh Karketta		Session Moderator: Dr. Anindya Basu	
Sl #	Time	Title	Speaker
1	12:00 pm – 12:25 pm	<i>Perceptions of natural hazards, disasters, vulnerability and risk</i>	Sunil Kumar De
2	12:25 pm – 12:50 pm	<i>Social Groundings of Hazard Management</i>	Ramkrishna Maiti
3	12:50 pm – 01:15 pm	<i>Landslide Multi-Hazard Risk Assessment, Preparedness and Early Warning in South Asia: Integrating Meteorology, Landscape and Society</i>	Alessandro Mondini
4	01:15 pm – 01:40 pm	<i>Soil Erosion as the 'Forgotten' Disaster Affecting Many Developing Nations</i>	Heinrich (Heinz) R. Beckedahl
5	01:40 pm – 02:05 pm	<i>Mainstreaming Disaster Risk Reduction</i>	Md. Mujibor Rahman

TECHNICAL SESSION – I

Google meet link: <https://meet.google.com/xwe-nvzr-hbm>

Date: 10 September 2020; Time: 04 pm. – 06 p.m. (IST)

Theme: Perception of Natural Hazards			
Chairperson: Prof. Sunil Kumar De		Co-Chairperson: Dr. Alessandro Mondini	
Rapporteur: Mr. Sourav Dey		Session Moderator: Dr. Shovan Ghosh	
Sl #	Time	Title	Author(s)
1	4:00 pm - 4:10 pm	<i>Impact of Natural Disasters on The Environment and Disasters Management</i>	Biplab Addya
2	4:10 pm - 4:20 pm	<i>The Cyclone of Fani</i>	Debanjali Chanda
3	4:20 pm - 4:30 pm	<i>An Appraisal of Geohydrological Hazards of Torsa Raidak Interfluve West Bengal</i>	Kaberi Brahma
4	4:30 pm - 4:40 pm	<i>Caused and Management of Flood Hazard in Flood Prone Region of Ganga River Between Ankin Ghat And Kanpur, India</i>	Sukamal Maity
5	4:40 pm - 4:50 pm	<i>Perception of Natural Hazards, Disasters, Vulnerability and Risk</i>	Suvankar Chakraborty
6	4:50 pm - 5:00 pm	<i>Flood Vulnerability Assessment in Torsa River System Within Himalayan Foreland Basin Using Frequency Ratio Model</i>	Meelan Chamling and Biswajit Bera
7	5:00 pm - 5:10 pm	<i>Dredging of River Ichhamati for Better Drainage and Flood Management: An Observation</i>	Sanjit Halder, Manasi Dey and Anupama Chakraborty

8	5:10 pm - 5:20 pm	<i>Sectoral and Temporal Damage Variation Due to Cyclonic Storm Surge: The Case Study of Amphan.</i>	Supriyo Halder and Sandip Mondal
9	5:20 pm - 5:30 pm	<i>Kolkata Urban Flooding: Induced by Local Geomorphological Set-Up</i>	Tulika Mondal

TECHNICAL SESSION – II

Google meet link: <http://meet.google.com/oga-furf-jyk>

Date: 10 September 2020; time: 04 pm. – 06 p.m. (IST)

Theme: Applicability of RS and GIS in Risk Assessment			
Chairperson: Prof. Ramkrishna Maiti		Co-Chairperson: Dr. Sayantan Das	
Rapporteur: Ms. Sucharita Pramanik		Session Moderator: Mr. Rajesh Karketta	
Sl #	Time	Title	Author(s)
1	4:00 pm - 4:10 pm	<i>Assessment and Mapping of Fluoride Contamination in the Groundwater of Gurugram District, Haryana Using Geographic Information System</i>	Aastha Malik and Deeksha Katyal
2	4:10 pm - 4:20 pm	<i>Identification of Landslide Susceptibility Zones Using Certainty Factor (CF) Model in the Lish River Basin of Eastern Darjeeling Himalaya, India</i>	Biplab Mandal, Biplab Biswas and Sujit Mondal
3	4:20 pm - 4:30 pm	<i>Oil Spill Monitoring Using Remote Sensing: A Case Study of Mauritius</i>	Chancy R Shah
4	4:30 pm - 4:40 pm	<i>Application of Geospatial Techniques in Studying Coastal Land Susceptibility to Erosion: A Case of Bangladesh</i>	Asib Ahmed, Clare Woulds, Frances Drake and Rizwan Nawaz
5	4:40 pm - 4:50 pm	<i>Web GIS Technology and Curriculum Design for Disaster Risk Reduction Education to Increase Learning Effect</i>	Song Jiali and Takashi Oguchi
6	4:50 pm - 5:00 pm	<i>Landslide Vulnerability and Risk Assessment of South Sikkim Himalaya, India</i>	Kallol Sarkar and Sujit Mondal
7	5:00 pm - 5:10 pm	<i>Impact of Urbanization on Vegetation and Water Cover Destruction in KMC: A Study Based on Multitemporal and Multispectral Satellite Data</i>	Liyakat Ali and MD Julfikar Ali
8	5:10 pm - 5:20 pm	<i>Erosion Vulnerability Analysis of Coastal Watersheds Using Geospatial Techniques - A Case Study of Konkan Coastal Region, Dapoli Tahsil, Ratnagiri District, Western Maharashtra</i>	Mithilesh Nandkumar Chavan
9	5:20 pm - 5:30 pm	<i>Assessment of Land Use and Land Cover Change in Purulia District During Three Decades Based on Multi-Temporal Images and Remote Sensing Techniques</i>	Pritha Das and Ramkrishna Maiti
10	5:30 pm - 5:40 pm	<i>Morphological Change Analysis and Vulnerability Status of Ghoramara Island and Probable Alternatives</i>	Sumana Mandal
11	5:40 pm - 5:50 pm	<i>Soil Erosion Susceptibility Mapping with Analytic Hierarchy Process (AHP) Algorithm: A Study in Paschim Medinipur and Jhargram District in India</i>	Tanmoy Sarkar and Mukunda Mishra

TECHNICAL SESSION – III

Google meet link: <https://meet.google.com/cjw-zwsi-fjz>

Date: 10 September 2020; time: 04 pm. – 06 p.m. (IST)

Theme: Climate change, Global Warming and Catastrophes			
Chairperson: Prof. Md. Mujibor Rahman		Co-chairperson: Dr. Biraj Kanti Mondal	
Rapporteur: Yasmin Khatun		Session moderator: Somnath Sarkar	
Sl #	Time	Title	Author(s)
1	4:00 pm - 4:10 pm	<i>Changing Weather Conditions and Its Impact on Jute Cultivation: A Case Study of Manirampur Village, Hooghly, West Bengal</i>	<i>Amar Nath</i>
2	4:10 pm - 4:20 pm	<i>Geospatial Assessment and Model Built-up of Urban Heat Island in Bhubaneswar Metropolitan Area, India Using Ordinary Least Square Regression and Geographically Weighted Regression</i>	<i>Asad Ali Sarkar</i>
3	4:20 pm - 4:30 pm	<i>Climate Change and Its Effect on Slum Dwellers: A Case Study of Kolkata Municipal Corporation</i>	<i>Avishek Banerjee</i>
4	4:30 pm - 4:40 pm	<i>Impact of Climate Change on Human Performance: A Study to Assess Physiological Strain in Male Food Growers' in a Southern District of West Bengal</i>	<i>Ayan Chatterjee, Sandipan Chatterjee, Neepa Banerjee and Shankarashis Mukherjee</i>
5	4:40 pm - 4:50 pm	<i>Assessing the Impact of Climate Change on Agriculture and Land Use Dynamics in Indian Sundarban Using Geospatial Technology</i>	<i>Biraj Kanti Mondal</i>
6	4:50 pm - 5:00 pm	<i>Climate change and Its Impacts on Tourism in Global Scenario</i>	<i>Rakesh Kumar Kori</i>
7	5:00 pm - 5:10 pm	<i>Climate Change, Global Warming and Catastrophes</i>	<i>Samapti Saha</i>
8	5:10 pm - 5:20 pm	<i>The Horrors of Global Warming are Probably Coming to Mankind - A Case Study with an Example of Cyclone "Amphan", West Bengal, India</i>	<i>Souvik Das and Ayan Kumar Maity</i>
9	5:20 pm - 5:30 pm	<i>Climate Change a Threat to Food Security of Sub Saharan Africa: A Review</i>	<i>Susmita Gayen and Pallabi Halder</i>
10	5:30 pm - 5:40 pm	<i>Climate change in Metropolitan City of Kolkata</i>	<i>Susmita Mondal</i>

Programme

PLENARY SESSION -II

DAY TWO: 11 September, 2020 (11:00 a.m. – 1:30 p.m.) (IST)

Platform: YouTube (live streaming Link: <https://youtu.be/aopVtf7vIU0>)

Chairperson: Prof. Takashi Oguchi		Co-Chairperson: Prof. Biplab Biswas	
Rapporteur: Mr. Somnath Sarkar		Session Moderator: Dr. Anindya Basu	
SI #	Time	Title	Speaker
1	11:00 pm – 12:25 pm	<i>Contribution of Geography to Understanding Disaster Hazards and Risks: IGU Activities and Japanese Examples</i>	Takashi Oguchi
2	11:25 pm – 11:50 pm	<i>Are the badlands of Tapi Basin in Deccan Trap Region of India “Vanishing Landscape?” Badland Dynamics: Past, Present and Future</i>	Veena Uday Joshi
3	11:50 pm – 12:15 pm	<i>Cities Adaptation to Pandemics</i>	Lakshmi Shivaramakrishnan
4	12:15 pm – 12:40 pm	<i>Disaster Education for Community Resilience: A Geographical Approach</i>	Lakshminarayan Satpati
5	12:40 pm – 01:05 pm	<i>Flood risk management is not only water management</i>	Miachel Nones
6	01:05 pm – 01:30 pm	<i>Landslides in the Hilly Districts: A New Issue of Recent Disaster Management in Bangladesh streaming Disaster Risk Reduction</i>	M. Shahidul Islam

TECHNICAL SESSION – IV

Google meet link: <https://meet.google.com/yxi-tqz-zee>

Date: 11 September 2020; Time: 03 pm. – 05 p.m. (IST)

Theme: Environmental Pollution and Ecology: From Biodiversity Conservation Perspectives			
Chairperson: Prof. Lakshminarayan Satpati		Co-Chairperson: Dr. Miachel Nones	
Rapporteur: Mr. Tanmay Sarkar		Session Moderator: Dr. Shovan Ghosh	
SI #	Time	Title	Author(s)
1	3:00 pm - 3:10 pm	<i>Adsorption Study of Methyl Orange Dye on Activated Maize Cob</i>	Abhijeet Sahani
2	3:10 pm - 3:20 pm	<i>An Approach to Identifying Man-Elephant Conflict Risk Assessment Using Geospatial Technology: A Study in Rangjuli Forest Range Area of Goalpara District Assam</i>	Alinda Hazowary
3	3:20 pm - 3:30 pm	<i>Human Ambition and Climate change</i>	Abhisek Kumar Singh, Reetu Singh and Pranjal Singh
4	3:30 pm - 3:40 pm	<i>Electromagnetic Radiation Hazard and Human Health</i>	Ram Bilas
5	3:40 pm - 3:50 pm	<i>The Present Ecological Condition of Naihati in Reference to Some Major Contemporary Environmental Issues with Few Sustainable Green Conservation Strategies</i>	Sayantani Nath (Bhadra)

6	3:50 pm - 4:00 pm	<i>Delineation of Groundwater Potential Zones Using Remote Sensing and GIS Techniques in Villupuram District, Tamil Nadu, India</i>	E. Hemavathy and R. Shyamala
7	4:00 pm - 4:10 pm	<i>A Geo Environmental Analysis of Solid Waste Management in Berhampore Municipality, Murshidabad District, West Bengal, India.</i>	Lal Mohammad Saikh and Sandip Kumar Chowdhury
8	4:10 pm - 4:20 pm	<i>Soil Fertility Analysis of Tehsil Shahoora Pulwama (JandK) Using Phsico-Chemical Analysis.</i>	M. Imran Ganaie, Aisha Dev and Ishtiaq A. Mayer
9	4:20 pm – 4:30 pm	<i>Climate Change and Global Warming: A Crisis on Water Resources</i>	Mousumi Kundu
10	4:30 pm - 4:40 pm	<i>Eco Tourism -A Key of Environmental Sustainability Study on Eco park in Newtown, Kolkata</i>	Mst Tania Parveen
11	4:40 pm - 4:50 pm	<i>The Time has Come to Protect the Ecological Footprint from Pollution: A Case Study of West Bengal Sundarbans</i>	Sandip Mondal and Supriyo Halder

TECHNICAL SESSION – V

Google meet link: <http://meet.google.com/uau-wbqw-xru>

Date: 11 September 2020; Time: 03 pm. – 05 p.m. (IST)

Theme: Demographic Vulnerabilities: Varied Aspects			
Chairperson: Prof. Shahidul Islam		Co-chairperson: Dr. Mukunda Mishra	
Rapporteur: Ms. Lopamudra Roy		Session moderator: Mr. Rajesh Karketta	
Sl #	Time	Title	Author(s)
1	3:00 pm - 3:10 pm	<i>Concept of Social Vulnerability in the Context of Sundarban</i>	Angshumita Chakraborty, Gopal Roy and Nilanjana Das
2	3:10 pm - 3:20 pm	<i>How We Determine Flood Risk? A Case in Buenos Aires Province, Argentina.</i>	Ignacio Agustin Gatti and Takashi Oguchi
3	3:20 pm - 3:30 pm	<i>Disaster Risk Assessment on Marginalized People: A Case Study on Chennai Slums</i>	Kanan R and Sulochana Shekhar
4	3:30 pm - 3:40 pm	<i>Identifying the Risk of Malnutrition among Women Brick Kiln Workers: A Micro Level Study of Hooghly District</i>	Mitali Ghosh and Shovan Ghosh
5	3:40 pm - 3:50 pm	<i>Disaster and Socio - Cultural Morality in Indian Rural Places towards Protection</i>	Partha Sarathi Sarkar
6	3:50 pm - 4:00 pm	<i>Health Hazards in West Bengal: Issues, Threats and Challenges</i>	Poulomi Mukherjee Koley and Suvasree Dutta (Dasgupta)
7	4:00 pm - 4:10 pm	<i>Understanding Households' Livelihood Vulnerability to River Bank Erosion at Kaliachak III Block in the Malda District of North East India</i>	Samrat Majumdar, Arijit Das and Sujit Mandal
8	4:10 pm - 4:20 pm	<i>Identifying the Risk Factors Of Cyberbullying in a Cosmopolitan Society: A Case Study of Kolkata Municipal Corporation, West Bengal</i>	Sucharita Pramanick and Shovan Ghosh
9	4:20 pm – 4:30 pm	<i>Barriers of Access to the Utilization of Health Care Services of Women at Canning-I Block, South 24 Parganas District, West Bengal</i>	Yasmin Khatun and Shovan Ghosh

TECHNICAL SESSION – VI

Google meet link: <https://meet.google.com/pbz-evis-omm>

Date: 11 September 2020; Time: 03 pm. – 05 p.m. (IST)

Theme: Strategies for Disaster Management: Ways Forward			
Chairperson: Prof. Veena Uday Joshi		Co-Chairperson: Dr. Biswajit Bera	
Rapporteur: Mr. Kollol Sarkar		Session Moderator: Mr. Somnath Sarkar	
Sl #	Time	Title	Author(s)
1	3:00 pm - 3:10 pm	<i>Forecasting and Preparedness: Way Forward to a Resilient Sundarban</i>	<i>Adrija Bhattacharjee and Anindya Basu</i>
2	3:10 pm - 3:20 pm	<i>Facets of Disaster Preparedness: Special Reference to Education</i>	<i>Alok Pal</i>
3	3:20 pm - 3:30 pm	<i>Role of Active Community Participation in Disaster Management for the Quick Resilience of Nature, Economy and Society: Experience from Super Cyclone 'Amphan' in Purba Medinipur District, West Bengal</i>	<i>Chayon Chakraborty and Manishree Mondal</i>
4	3:30 pm - 3:40 pm	<i>Implementation of Disaster Prevention Workshops for Different Age Groups Using Printed Maps and GIS</i>	<i>Hiroyuki Yamauchi, Takashi Oguchi and Jiali Song</i>
5	3:40 pm - 3:50 pm	<i>Utilization and Efficiency of Electronic Media in Disaster Governance: An Overview</i>	<i>Jaydip De</i>
6	3:50 pm - 4:00 pm	<i>Disaster and the Strategies for Disaster Management</i>	<i>Riya Auddya</i>
7	4:00 pm - 4:10 pm	<i>GIS-Based Landform Classification across Different Land Use Land Cover Segments in the Sub-Himalayan Kaljani River Basin of Bhutan and India: Special Emphasis on the 2016 Flood Event</i>	<i>Sayantana Das and Lopamudra Roy</i>
8	4:10 pm – 4:20 pm	<i>Channel Migration, Bank Erosion Vulnerability and Application of AHP Model to Explore Suitable Human Habitation Sites in the Torsa River Basin of Eastern India</i>	<i>Sourav Dey and Sujit Mondal</i>

VALEDICTORY SESSION

DAY TWO: 11 September, 2020 (05:00 p.m. – 5:40 p.m.)

Platform- Google Meet (<https://meet.google.com/yxi-tqgz-zee>)

Chairperson	Professor Sujit Mandal, Dean, faculty of Science, Diamond Harbour Women's University
Valedictory Speech	Professor Soumendu Chatterjee, Head, Department of Geography, Presidency University
Reporting	Dr. Shovan Ghosh, Dept. of Geography, Diamond Harbour Women's University
Vote of thanks	Dr. Anindya Basu, Dept. of Geography, Diamond Harbour Women's University
<i>Thank you</i>	