Curriculum Vitae of Dr. A S M Maksud Kamal

Professor Dr. A. S. M. Maksud Kamal

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Professional Experience Summary:

- **Pro-Vice Chancellor (Academic)**, University of Dhaka, Bangladesh
- **Professor**, Department of Disaster Science and Climate Resilience (DSCR), Faculty of Earth and Environmental Science, University of Dhaka, Bangladesh
- Visiting Professor (Apr 2022 Mar 2027): Institute for Disaster and Risk Reduction (IRDR), University College London (UCL), UK.
- Founding Chairman (2012 August- October 2017), Department of Disaster Science and Management, University of Dhaka, Bangladesh

Degree achieved	Institute	Department/Institute	Area	Year	Class/Division
Doctor of Engineering (D. Eng.)	Tokyo Institute of Technology, Japan	Department of Built Environment	Earthquake Engineering	2004	Excellent
Master of Science (MSc)	University of Twente, The Netherlands	Geo-information Science and Earth Observation (ITC)	Applied Geomorphology and Engineering Geology	1998	Very Good (Thesis)
Master of Science (MSc)	University of Dhaka	Department of Geology	Environmental Geology	1989	1 st Class
Bachelor of Science (BSc)	University of Dhaka	Department of Geology	Geological Sciences	1988	1 st Class
H.S.C	Lakshmipur Government College	Science	Science	1984	1 st Division
S.S.C	Lakshmipur H A Samad Academy	Science	Science	1982	1 st Division

1. Education:

Training: I have received a good number of trainings relevant to my discipline related to geology, geomorphology, disaster risk reduction, Mitigation and Adaptation of climatic phenomena with particular emphasis on Geographic Information System (GIS), Remote Sensing (RS), Stochastic

Processes for Environment-Ecological Research, Integration of Science and Technology into policy. I am also promoting need-based education related to higher study and skills development.

2. Degree Awarding Dissertations:

Title of Dissertation	Degree awarded	Institution
		Dept. of Built
Remote sensing and GIS-based Seismic	Doctor of Engineering	Environment,
Microzonation of Dhaka City area	(D. Eng.)	Tokyo Institute of
		Technology (TIT)
Influence of neotectonics on the planform development of the Brahmaputra-Jamuna River, Bangladesh in the context of regional and local morphotectonics	Master of Science (MSc)	ITC, University of Twente
A study of the morphological, hydrological and environmental balance of the river Ganges and its surroundings after the commissioning of the Farraka barrage	Master of Science (MSc)	Dept. of Geology, University of Dhaka

3. Previous Academic and Organizational Experiences:

Position	Position Institute	
Research Associate	BOSE Centre, Department of Physics, University of Dhaka	1990-1994
Scientific Officer	Bangladesh Space Research and Remote Sensing Organization (SPARRSO)	1995-2000
Lecturer to Professor	Department of Geology, University of Dhaka	April 2000-March 2010
Earthquake Expert	Asian Disaster Preparedness Centre and UNDP, IRAN	February-March, 2007
Earthquake and	Comprehensive Disaster Management	March 2007-
Tsunami Expert	Programme- phase 1 and UNDP, Bangladesh	December, 2009
Urban Risk Reduction Specialist	Comprehensive Disaster Management Programme and UNDP, Bangladesh	January – February 2010, &April 2010- December, 2010

4. Leadership in Academic Arena:

I was elected President (04 times) and Secretary (03 times) of Dhaka University Teachers' Association (DUTA) in seven consecutive periods before getting the responsibility of Pro-Vice Chancellor (Academic). I was also the Secretary General and President (03 times) of the Federation of Bangladesh University Teachers' Association (FBUTA).

Position(s)	Organization(s)	Duration
President	Dhaka University Teachers' Association (DUTA)	2017-2020
Secretary	Dhaka University Teachers' Association (DUTA)	2013-2016
President	Federation of Bangladesh University Teachers'	2017-2020
	Association (FBUTA)	
Secretary General	Federation of Bangladesh University Teachers'	2015-2016
	Association (FBUTA)	

5. Academic and Administrative Positions Held:

I held office as the elected Dean at four consecutive periods from December 2012 to June 2020 of the Faculty of Earth and Environmental Science (FEES). I was the founding chairman of the Department of Disaster Science and Management (presently known as Disaster Science and Climate Resilience for 02 times).

Position (s)	Entities	Duration
Chairman (Founding	Department of Disaster Science and	2012-2017
Chairman)	Management (Presently known as Disaster	
	Science and Climate Resilience)	
Dean	Faculty of Earth and Environmental Science	2012-2020
	(FEES)	
Provost	Master Da' Surjosen Hall	2013-2018
Senate (decision-making	University of Dhaka	November 2013
body) member		until now
Syndicate (decision-making	University of Dhaka	September 2014
body) member		until now

6. Affiliations with Scientific Society:

Position	Organization	Duration
President	Bangladesh Society of Geo-informatics	February 2019 to till date
Chairman	National Oceanographic and Maritime Institute (NOAMI)	November 2021to till date
Secretary (acting)	cretary (acting) Geological Society of Bangladesh	
Executive member		

7. Research Interest:

My research interest recently inclined to foster academic quality leadership among the university teachers' community and beyond, considering the knowledge economy and application of 4iR with particular attention to the global south where a robust demographic dividend thrives. In terms of academic interest, I have taken an active drive-in disaster risk reduction, environmental hazard prevention and mitigation, the extension of humanitarian support to reduce the vulnerability of the at-risk community, promotion of climate resilient environment as well as generating & integrating the scientific knowledge and citizen sciences for policy updating and formation to ensure the sustainable development. A good number of relevant publications (given later) to my account are the reflection of my works mentioned.

8. Recent Working Experiences with the Government:

Position	Institute	Duration
Member: Disaster Risk	Ministry of Forest, Environment and Climate	
Management Specialist for	Change, Government of the Peoples Republic	September 2017
the Formulation and	of Bangladesh; funded by UNDP and	till present
Advancement of National	implemented by CEGIS	-

Adaptation of Climate Change		
Member: National Disaster Management Advisory Committee	Ministry of Disaster Management and Relief, Government of the People's Republic of Bangladesh	June 2020 till present
Convener: Proposal Evaluation Committee of Environmental Sciences	Ministry of Science and Technology, Government of the People's Republic of Bangladesh	January 2014 till present
Convenor (Technical Advisory Committee): Multi-hazard Risk and Vulnerability Assessment Modelling and Mapping	Department of Disaster Management (DDM), Ministry of Disaster Management and Relief	March 2015 to June 2017
Member: Establishing National Emergency	Ministry of Disaster Management and Relief, Government of the People's Republic of	September 2017–
Management Centre	Bangladesh	June 2019

9. Some Recently Completed and Ongoing Research Projects:

Project title	Duration
Climate-induced Shock Responsive Disaster Resilience Mapping for Adaptive Social Protection Programming of the at-Risk Population in the Sylhet Division of Bangladesh	January 2023- till date
Feasibility Study towards Capacity Building for Landslide Risk Reduction and Response in the Hilly Terrain of Bangladesh (Department of Disaster Management, Ministry of Disaster Management and Relief, Bangladesh)	March 2022- September 2022
Innovating Non-monetary Interventions for Climate-smart Agriculture: An ADOPT Model for Technology Diffusion (Curtain University and ADPC)	March 2022- July 2022
Resilient Futures for the Rohingya Refugees; Funded by the Royal Society (Grant Scheme: Challenge-led Grants)	March 2019 – till date
Impact Analysis of installation of Saline Water Treatment Plant (2-ton truck- mounted) in the South-West Region of the Country (Funded by the Ministry of Disaster Management and Relief)	January 2021- November 2021
Community clinics in Bangladesh: A situation analysis to address performance and challenges during the Covid-19 pandemic as the neighborhood health care centre (Funded by WaterAid)	April 2020- October, 2020
A Study to Mitigate the Unemployment Problems of the Poorest (Hardcore poor) by Creating Opportunities (Funded by Ministry of Disaster Management and Relief, Bangladesh)	July 2019-June 2020
Landslide Hazard Assessment for Rohingya Camps of Cox's Bazar- Teknaf area, Bangladesh (UNHCR/ADPC)	November 2017 –March 2018
Assessing Vulnerability and Resilience in Extreme Climatic Disasters: Evidence from Flood Victims in Bangladesh (University Colleague London and	September 2016–
University of Dhaka)	November 2017
Assessing Vulnerability and Resilience in Extreme Climatic Disasters:	September 2016
Evidence from Flood Victims in Bangladesh (University Colleague London and	-November
University of Dhaka	2017
Urban Disaster Preparedness and Response: A Synthesis Review of Public	May 2017 –
Policies, Strategies, and Disaster Management Plans, GoB	October 2017

Trends of Disaster-related Public Fund Allocation in Bangladesh (An analysis	June 2016 –
of ADP's during the 6th Five Year Plan period (FY 2011 - FY 2015) for	June 2017
National Alliance for Risk Reduction and Response Initiatives	June 2017

10. Supervision of Ph.D., Master, and other Research Works

PhD Students (Completed)

1. Mohammad Ahsan Uddin

Statistical Modeling of Rainfall and Drought in North West Bangladesh

2. AKM Aminul Haque

Development of Open Space Management System to Response Scenario Earthquake in Dhaka Metropolitan Area

3. Md. Jobaer Alam

Exploring the Possibilities of Mariculture for Promoting the Blue Economy of St. Martin's Island, Bangladesh

PhD Students (Ongoing)

1. Md. Tauhidul Islam

Epidemiological Mapping with the Changes of Ecology.

2. Aparna Barman

Multi-scale Climatic Vulnerability and Resilience Assessment in the South-western Coastal Region of Bangladesh.

- Kamrun Nahar Khan Mukty Landfill Site Suitability Analysis on the Aspect of Water Contamination by Using GIS and Remote Sensing in Dhaka City, Bangladesh.
- 4. Fansab Mustahid

Fault characterization using Geophysical information in the Northern part of Bangladesh.

5. Golam Kibria

Developing Cyclone Disaster Demand Matrix for Bangladesh.

6. Mohammad Abdul Hadi

Spatiotemporal and Economic Analysis of the Major Urban Areas in Bangladesh.

7. Nasim Ferdous

Risk Sensitive Landuse Planning for Rajshahi City Corporation Area of Bangladesh.

MS Thesis Students

Na	me I	Department	Thesis Title	Session

	Name		
M. Abdullah Al Masud Khan	Geology	Remote Sensing and GIS-based Urban Area Delineation on Geological Units of Chittagong City area, Bangladesh.	2001-2002
Md. Baharul Alam Biswas	Geology	Soil Liquefaction Potential of Chittagong City Corporation area using simplified Seed and Idriss (1983) Method triggered by earthquake.	2003-2004
Kamrun Nahar	Geology	Ground amplification assessment using Microtremor and its relation to geomorphology- A case study of Sylhet city corporation area, Bangladesh.	2005-2006
Md Shakhawat Hossain	Geology	Correlation of geophysical and geotechnical investigations for seismic hazard assessment in Dhaka city, Bangladesh.	2005-2006
Dewan Md. Enamul Haque	Geology	Integration of Geological Information with Physical Planning to Develop Seismic-hazard Risk Sensitive Land Use Plan for Mymensingh Pourashava, Bangladesh.	2009-10
Anika Samm-A	Department of Disaster Science and Climate Resilience	Earthquake and Rainfall Induced landslide Hazard Assessment of Kutupalong Rohingya Camp using Meteorological and Geological Information	2019-20
Tasnim Jabin Jui	Department of Disaster Science and Climate Resilience	Assessment of Community's Willingness to Pay (WTP) for Improved Public Healthcare Facilities in the Coastal Hazard-prone Areas of Bangladesh	2019-20
Abul Kashem Faruki Fahim	Department of Disaster Science and Climate Resilience	A Comparative Assessment of the Spatiotemporal Variations and Sustainability of Groundwater of Bangladesh using Reliability- Resiliency-Vulnerability Approach	2019-20
Md. Shahoriar	Department of Disaster	Land Subsidence Monitoring using InSAR Technique in the Southwestern	2020-21

Sarker	Science and Climate Resilience	Region of Bangladesh	
Md. Mahfuzar Rahman	Department of Disaster Science and Climate Resilience	Flood Inundation Mapping of Sylhet City and Surrounding Floodplain Area using 1D-2D Coupled Hydraulic Modelling: A Case Study of Recent Flood Event 2022	2020-21
Romana Ibrahim	Department of Disaster Science and Climate Resilience	Prediction of groundwater salinity in the southwestern coastal region of Bangladesh using machine learning technique s	2020-21
Naharin Zannat	Department of Disaster Science and Climate Resilience	Rainfall induced landslide Hazard assessment in Chittagong Metropolitan Area	2020-21
Sheikh Walee Al Kabeer	Department of Disaster Science and Climate Resilience	Identifying areas most critically affected by increase in land-surface temperature and micro-climate change in Dhaka and their root causes and impacts.	2016-2017
Md. Imran Hossain Alve	Department of Disaster Science and Climate Resilience	Time-series Analysis of Soil Salinity in Khulna District Using Spectral Salinity Indices	2016-2017
Mirza Shihab Uddin	Department of Disaster Science and Climate Resilience	Post Cyclone Housing Reconstruction Pattern in Rangabali Upazilla, Patuakhali	2016-2017
Muhammad Abu Sayed	Department of Disaster Science and Climate Resilience	Vulnerability Assessment of Dupi tila Aquifer for Araihazar Upazila, Narayanganj, Dhaka, Bangladesh	2016-2017

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Nafis Sazeed	Department of Disaster Science and Climate Resilience	Development of Flash Flood Early Warning System using Space Based Information	2016-2017
Md. Fazle Rabby	Department of Disaster Science and Climate Resilience	Drought Risk Assessment Using Remote Sensing & GIS Techniques: A Case Study of Niamatpur Upazila of Naogaon District, Bangladesh	2016-2017
Tonoy Mahmud	Department of Disaster Science and Climate Resilience	Performance Analysis of Three- Dimensional Model Produced from InSAR and Subpixel Correlation	2016-2017
Nazma Ahmed	Department of Disaster Science and Climate Resilience	Analysis of open space suitability for establishing temporary emergency shelter in the aftermath of earthquake in West Mirpur of Dhaka city	2016-2017
Shamima Ferdousi Sifa	Department of Disaster Science and Climate Resilience	A quantitative landslide risk assessment approach for Kutupalong Rohingya Camp	2016-2017
Sara Hanan Chowdhury	Department of Disaster Science and Climate Resilience	Assessing-socio economic vulnerability associated migration decision of the coastal people	2016-2017
Georgina Arefin Edita	Department of Disaster Science and Climate Resilience	Flood hazard modelling using HEC- HMS and GPM data for lower Teesta region	2016-2017
Afroza Mallick	Department of Disaster Science and Climate Resilience	How Riverbank Erosion Affects People's Non-migration Decisions in the Coastal Island of Bangladesh: A Case Study of Ramdaspur Village of Rajapur Union in Bhola District	2016-2017

Maria Abdullah Tarin	Department of Disaster Science and Climate Resilience	Assessment of the Groundwater Quality in Assasuni, Debhata and Kaliganj Upazila of Satkhira District	2016-2017
Marufa Akter	Department of Disaster Science and Climate Resilience	Urban Flood Risk Index Mapping using multi-parametric AHP and Remote Sensing GIS. A case study on Ramna- Matijheel Area	2016-2017
Dulali Majumdar	Department of Disaster Science and Climate Resilience	Socio-economic Inequalities Assessment of Different Thana of Madaripur District	2016-2017
Farah Jarin Khan Preyanka	Department of Disaster Science and Climate Resilience	Suitability Assessment of existing cyclone shelter in Barguna district	2016-2017
Sabrina Sultana Lima	Department of Disaster Science and Climate Resilience	Quantification of River Bank Erosion and Bar Deposition and Change Detection of Land cover Pattern in Naria Upazila	2016-2017
Nafisa Nauri Islam	Department of Disaster Science and Climate Resilience	Cyclone shelters and refugee decisions in coastal Bangladesh	2016-2017
Md. Asif Rafsan	Department of Disaster Science and Climate Resilience	Assessing risk of riverbank erosion migrants and their migration path in Dulutkhan upazila, Bhola.	2016-2017
Saiyeba Zaman	Department of Disaster Science and Climate Resilience	Crop type wise damage assessment due to flood inundation in Dinajpur District	2016-2017

Name	Department Name	Project Title	Session
Azka Touhida Daiby	Department of Disaster Science and Climate Resilience	Rainfall Macro Climate Analysis of Chattogram District using CMIP6 Models and Station Data for the period 1960-2018	2017-2018
E.M. Talid Khan	Department of Disaster Science and Climate Resilience	Damage and loss assessment of household for Sylhet flood 2022	2017-2018
Anika Tabassum	Department of Disaster Science and Climate Resilience	Impact of Urban Sprawling on Urban Heat Island: A Microclimate Change Study in Chittagong City	2016-2017
Mahfuja	Department of	Earthquake-Induced Landslide Hazard	2016-2017
Khandaker	Disaster Science	Assessment in Chittagong Metropolitan	
	and Climate	Area	
	Resilience		
Habiba Azad	Department of	Development of storm surge prediction	2017-201
	Disaster Science	model for the Southern region of	
	and Climate	Bangladesh using artificial neural	
	Resilience	network (ANN)	
Sabiha Anjum	Department of	Monitoring and Prediction of Riverbank	2016-2017
Dibby	Disaster Science	Erosion of Dharla River Using Landsat	
	and Climate	Satellite Imageries and Kalman Filtering	
	Resilience	Algorithm in Kurigram District	
Asim Abrar	Department of	Fire Hazard Modeling using Fire	2017-201
	Disaster Science	Dynamic Simulator and Damage and	
	and Climate	Loss Assessment of Neighboring	
	Resilience	Households of the 2022 Sitakunda Fire	
		Event	

Research Project Students

11. Publications:

Research Articles

- Alam, Md. J., Kamal, A. S. M. M., Ahmed, Md. K., Rahman, M., Hasan, M., & Rahman, S. A. R. (2023). Nutrient and heavy metal dynamics in the coastal waters of St. Martin's island in the Bay of Bengal. Heliyon, 9(10), e20458. https://doi.org/10.1016/j.heliyon.2023.e20458
- Samm-A, A., Kamal, A. S. M. M., Hossain, A., Hossain, M. M., Hassan, S. M. K., Jahan, H., Hayat, H., Jui, T. J., Sifa, S. F., Awal, A. S. N. (2023). Capacity Assessment of Community Clinic (CC) as an Information and Support Hub during Future Outbreaks: Lessons learnt from the COVID-19 outbreak. *The Dhaka University Journal of Earth and Environmental Sciences*.
- Alam, A., Ahmed, B., Sammonds, P., & Maksud Kamal, A. S. M. (2023). Applying rainfall threshold estimates and frequency ratio model for landslide hazard assessment in the coastal mountain setting of South Asia. *Natural Hazards Research*. https://doi.org/10.1016/J.NHRES.2023.08.002
- Hossain, M. S., Numada, M., Mitu, M., Timsina, K., Krisna, C., Rahman, M. Z., Kamal, A. S. M. M., & Meguro, K. (2023). Simplified engineering geomorphic unit-based seismic site characterization of the detailed area plan of Dhaka city, Bangladesh. *Scientific Reports*, 13(1), 11151. https://doi.org/10.1038/S41598-023-37628-6
- Farazi, A. H., Hossain, M. S., Ito, Y., Piña-Flores, J., Kamal, A. S. M. M., & Rahman, M. Z. (2023). Shear wave velocity estimation in the Bengal Basin, Bangladesh by HVSR analysis: implications for engineering bedrock depth. *Journal of Applied Geophysics*, 211, 104967. https://doi.org/10.1016/J.JAPPGEO.2023.104967
- Hossain, F., Kamal, A. S. M. M., Sadeak, S., & Gazi, M. Y. (2023). Quantitative soil erosion risk assessment due to rapid urbanization in the Cox's Bazar district and Rohingya refugee camps in Bangladesh. *Stochastic Environmental Research and Risk Assessment*, 37(3), 989– 1006. https://doi.org/10.1007/S00477-022-02314-Y/METRICS
- Kamal, A. S. M. M., Al-Montakim, M. N., Hasan, M. A., Mitu, M. M. P., Gazi, M. Y., Uddin, M. M., & Mia, M. B. (2023). Relationship between Urban Environmental Components and Dengue Prevalence in Dhaka City—An Approach of Spatial Analysis of Satellite Remote Sensing, Hydro-Climatic, and Census Dengue Data. *International Journal of Environmental Research and Public Health*, 20(5), 3858. https://doi.org/10.3390/IJERPH20053858/S1
- 8. Kamal, A. S. M., Fahim, A. K. F., & Shahid, S. (2023). Changes in Wet Bulb Globe Temperature and Risk to Heat-Related Hazards: An Overview of Bangladesh. Shamsuddin

and Fahim, Abul Kashem Faruki, Changes in Wet Bulb Globe Temperature and Risk to Heat-Related Hazards: An Overview of Bangladesh. https://dx.doi.org/10.2139/ssrn.4330320

- Kamal, A. S. M., Hossain, F., Ahmed, B., Rahman, M. Z., & Sammonds, P. (2023). Assessing the effectiveness of landslide slope stability by analysing structural mitigation measures and community risk perception. *Natural Hazards*, 1-26.
- Samm-A, A., Kamal, A. S. M. M., & Rahman, M. Z. (2023). Earthquake and rainfall-induced landslide hazard assessment of Kutupalong Rohingya camp using meteorological and geological information. *Stochastic Environmental Research and Risk Assessment*, 1–13. https://doi.org/10.1007/S00477-023-02418-Z/METRICS
- Akhter, S., Qiao, F., Wu, K., Yin, X., Chowdhury, K. M. A., Ahmed, M. K., & Kamal, A. S. M. M. (2022). Spatiotemporal variations of the thermohaline structure and cyclonic response in the northern Bay of Bengal: The evaluation of a global ocean forecasting system. *Journal of Sea Research*, *182*, 102188. https://doi.org/10.1016/J.SEARES.2022.102188
- Fahim, A. K. F., Kamal, A. S. M. M., & Shahid, S. (2022). Spatiotemporal change in groundwater sustainability of Bangladesh and its major causes. *Stochastic Environmental Research and Risk Assessment*, 1–16. https://doi.org/10.1007/S00477-022-02294-Z/FIGURES/11
- Fahim, A. K. F., Rahman, Md. Z., Hossain, Md. S., & Kamal, A. S. M. M. (2022). Liquefaction resistance evaluation of soils using artificial neural network for Dhaka City, Bangladesh. Natural Hazards 2022, 1–31. https://doi.org/10.1007/S11069-022-05331-W
- Hossain, M. S., Bintu, F. A., Rahman, M. Z., Islam, M. K., Kamal, A. M., & Hossain, A. (2022). A Simplified Analytical Model to Evaluate Hospital Preparedness for Earthquake Emergency Response. *The Dhaka University Journal of Earth and Environmental Sciences*, *11*(1), 53–68. https://doi.org/10.3329/DUJEES.V1111.63711
- Jones, B. G., Al-Nasrawi, A. K. M., Fuentes, I., Gazi, M. Y., Maksud Kamal, A. S. M., Uddin, M. N., Anwar, M., Bhuiyan, H., & Rahman, M. Z. (2022). The Stability and Suitability of the Bhasan Char Island as an Accommodation for the Forcibly Displaced Myanmar Nationals (FDMN). *Sustainability 2022, Vol. 14, Page 747, 14*(2), 747. https://doi.org/10.3390/SU14020747
- Kamal, A. M., Fahim, A. K. F., & Shahid, S. (2022). Spatial Modeling of Groundwater Level in Bangladesh Using Physio-Climatic Variables: Machine Learning and Statistical

Approaches. 2261689/v1 covered.pdf?c=1668606163 https://assets.researchsquare.com/files/rs-

- Kamal, A. S. M. M., Ahmed, B., Tasnim, S., & Sammonds, P. (2022). Assessing rainfallinduced landslide risk in a humanitarian context: The Kutupalong Rohingya Camp in Cox's Bazar, Bangladesh. *Natural Hazards Research*, 2(3), 230–248. https://doi.org/10.1016/J.NHRES.2022.08.006
- Kamal, A. S. M. M., Hossain, F., Ahmed, B., & Sammonds, P. (2022). Analyzing the 27 July 2021 rainfall-induced catastrophic landslide event in the Kutupalong Rohingya Camp in Cox's Bazar, Bangladesh. *Geoenvironmental Disasters*, 9(1), 1–10. https://doi.org/10.1186/S40677-022-00219-0/TABLES/1
- Kamal, A. S. M. M., Hossain, F., Rahman, M. Z., Ahmed, B., & Sammonds, P. (2022). Geological and soil engineering properties of shallow landslides occurring in the Kutupalong Rohingya Camp in Cox's Bazar, Bangladesh. *Landslides*, 19(2), 465–478. https://doi.org/10.1007/S10346-021-01810-6/FIGURES/12
- 20. Kamal, A. S. M. M., Kamrul Hassan, S. M., Hossain Muhammad Ahsan, A., & Ahmed, N. (2022). Disaster Accountability Framework of Bangladesh: An Analysis of Strengths and Gaps. *The Dhaka University Journal of Earth and Environmental Sciences*, 11(1), 69–80. https://doi.org/10.3329/DUJEES.V1111.63712
- Uddin, M. A., Kamal, A. S. M. M., & Shahid, S. (2022). Vegetation response to climate and climatic extremes in northwest Bangladesh: a quantile regression approach. *Theoretical and Applied Climatology*, 148(3–4), 985–1003. https://doi.org/10.1007/S00704-022-03968-Y/FIGURES/11
- 22. Al Amin, M., Kabir, A. B., Alam, M. J., Ahmed, K. M., Kamal, A. M., & Khan, M. R. (2021). Assessment of Groundwater Resources and Its Sustainability in the St. Martin's Island, Bangladesh. *The Dhaka University Journal of Earth and Environmental Sciences*, 63-72. https://doi.org/10.3329/dujees.v10i3.59072
- Hossain, M. S., Chaitanya, K., Bhattacharya, Y., Numada, M., Kamal, A. S. M. M., & Meguro, K. (2021). Integration of smart watch and geographic information system (GIS) to identify post-earthquake critical rescue area part. II. Analytical evaluation of the system. *Progress in Disaster Science*, *9*, 100132. https://doi.org/10.1016/J.PDISAS.2020.100132
- Kamal, A. S. M., Sifa, S. F., Islam, S. M., Rafsan, M. A., Alve, M. I. H., Mahmud, T., Hossain, M. S., & Rahman, M. Z. (2021). Climate Change Vulnerability Assessment of Patuakhali 13

Municipality in Bangladesh. *The Dhaka University Journal of Earth and Environmental Sciences*, 10(3), 187–198. https://doi.org/10.3329/DUJEES.V10I3.59083

- 25. Kamal, A. S. M. M., Hossain, F., & Shahid, S. (2021). Spatiotemporal changes in rainfall and droughts of Bangladesh for1.5 and 2 °C temperature rise scenarios of CMIP6 models. *Theoretical and Applied Climatology*, 146(1–2), 527–542. https://doi.org/10.1007/S00704-021-03735-5/FIGURES/10
- Kamal, A. S. M. M., Md, , Islam, S., Hayat, Tanzim, Hossain, S., Woobaidullah, A S M, & Rahman, Z. (2021). Towards an earthquake risk-sensitive land use planning: a case study for Tangail Municipality, Bangladesh. *Arabian Journal of Geosciences 2021 14:22*, *14*(22), 1–13. https://doi.org/10.1007/S12517-021-08558-2
- 27. Kamal, A. S. M. M., Mitu, M., Hossain, M. S., Rahman, M. M., & Rahman, M. Z. (2021). Seismic Hazard Analysis for the South-Central Coastal Region of Bangladesh Considering the Worst-Case Scenario. *Pure and Applied Geophysics*, 178(8), 2821–2838. https://doi.org/10.1007/S00024-021-02770-7/TABLES/7
- 28. Mahmud, T., Sifa, S. F., Islam, N. N., Rafsan, M. A., Kamal, A. S. M. M., Hossain, M. S., Rahman, M. Z., & Chakraborty, T. R. (2021). Drought dynamics of Northwestern Teesta Floodplain of Bangladesh: a remote sensing approach to ascertain the cause and effect. *Environmental Monitoring and Assessment*, 193(4), 1–19. https://doi.org/10.1007/S10661-021-09005-1/FIGURES/10
- Rahman, M. Z., Siddiqua, S., & Kamal, A. S. M. M. (2021). Site response analysis for deep and soft sedimentary deposits of Dhaka City, Bangladesh. *Natural Hazards*, 106(3), 2279– 2305. https://doi.org/10.1007/S11069-021-04543-W/FIGURES/17
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- 3. Land Subsidence Monitoring using InSAR Technique in the Southwestern Region of Bangladesh (Journal name: Geomatics, Natural Hazards and Risk, Taylor and Francis Online).

- 4. Water-Borne Disease Risk in the Induced Salinity Prone Areas of South Western Coastal Region of Bangladesh (Journal name: Climate and Development).
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12. Exposure to Print and Electronic Media:

I am a recognized figure in the media landscape, with my insights on higher education, climate resilience, disasters, and socio-political issues frequently featured in newspapers and shared through electronic media outlets.

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